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SURVEYORS VALUERS AND AUCTIONEERS OF REAL ESTATE

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BUSINESS

Phillips

biggest

may build

oil system

THE PHILLIPS offshore con-sortium is preparing the way

for developing three neighbour-

ing oil fields which could become one of the biggest oil and gas production systems in the UK sector of the North Sca.

The decision to go ahead has still to be taken by Phillips and its partners. The fields concerned are Tiffany, Toni and Thelma in the so-called "T-block" 16/17, about 150 miles north-east of Aberdeen. Back

THE DANISH krone

foreign exchange market and the upward trend in U.S. interest rates.

There was no sign of any

franc. Belgium's inflation rate

rose to 4.93 per cent for August,

System; the "grid" of cross

rates from which no currency

(Except the lira) may more more than 21 per cent; and the

varying degrees by which each

pean currencies. The "grid" is

always shown by reference to

the weakest currency in the system, which is the base line

• EEC AUDITING office has

• THE OFFER of Merck of the

U.S. via its wholly-owned UK subsidiary, for Alginate Indus-tries is unaffected by Friday's

U.S. Justice Department anti-

trust suit, it was said yesterday. **eWOOL TEXTILE** group Illing-

worth Morris is to close one of its fine worsted mills in Hud-

dersfield with a loss of 350 jobs

because of falling demand.

• WILSON COMMITTEE find-

ing that there is no "systematic bias" against small firms in the

UK financial system is rejected

by the Association of Inde-pendent Businessmen. Pages 3

BL's Rover car plant in Cardiff

have voted to stay out after today's one-day national strike,

following management decision

in the top chart.

lines. Back Page

on exchange rates

Hospital names heart

Britain's latest beart transplant patient—the sixth—was named as Mr. Keith Castle, 52, retired builder, of Latchmere Road, Battersea, London.

On the first day after his 51-hour operation or Paymenth.

patient

51-hour operation at Papworth Hospital, near Cambridge, he had a 30-minute visit from relatives. He spent wost of the rest of the day dozing and listening to the radio.

is Hospital officials said every-one there was "very delighted" with Mr. Castle's progress. Though lying flat on his back, remained the weakest member of the European Monetary System last weak, although most currencles were fairly steady and trading was quiet. Attention tended to centre around the U.S. dollar in the he is breathing normally without a ventilator and began his post-operation morning with a large glass of milk.

Strauss fails to budge Begin

President Carter's Middle East heavy pressure on the Danish envoy Robert Stranss failed to currency, or the other weak budge Israel's Prime Minister member of the EMS, the Belgian Menahem Begin on his rejection of any U.S. attempt to introduce a new UN resoluton recognising Palestinian rights.

confirming the upward frend in other industrial economies. The Italian lira remained the most improved member of the EMS After two hours of apparently tongo talks in Tel Aviv, Mr. followed by the D-mark. Strauss refused to make any reference to Israeli threats to quit Palestinian autonomy talks if the U.S. tabled its own resolution or backed any other resolution widening Palestinian rights. Back Page

Crucial vote

The trade union vote may yet thwart Mr. James Callaghan's hopes of preventing the Labour Party conference in October deciding on controversial amendments to the party's constitution. Many upion leaders now believe the debate shouldnot be sidestepped. Back Page

Spacemen back

Soviet cosmonauts Vladimir Lyakhov and Valery Ryumin zeturned safely to earth aboard Soyuz-34 after orbiting the earth In the Sulvet 6 space station for a record 175 days.

Death sentences

Former Kampuchean leaders Pol Pot and leng Sary were found guilty of genocide and sentenced to death in their absence by a Phnom Penh special court. They were described as "the authors" of the deaths of about three million people in their three

Jacklin wins

Britain's Tony Jacklin returned a final round of 71 to win the West German open golf cham-pionship at Frankfurt He finished two strokes ahead of American Lanny Wadkins to capture the \$12,500 prize.

Dictator caught

Equatorial Guinea's ousted diciator, Francisco Macais Ngueina, was captured alone and unarmed in the jungle near his native village. Troops of the military council which overthrew him are taking him to the city of Bata for trial.

Muzorewa sued

The commander of Zimbabwe Rhodesia's crack Selous Scouts battalion, Lt.-Col. Ron Reid-Daly, is suing Prime Minister Abel-Muzorewa and the former Army commander over the alleged bugging of his telephone. He is seeking \$78.000 damages for invasion of privacy.

Briefly ...

Urban guerrilla suspect Franco Piperno, sought in Italy over @ ENGINEERING workers at the killing of former Premier Aldo Moro, arrested in Paris. Three surviving babies of octuplets born in Naples reported in slightly improved condition. to lay off workers.

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Anglo - French

energy- Lombard: Anthony Harris switching 10 comment on Fastnet's Taxation of fringe bene- tragic economics Management: Ford's future Fringe benefits, Brazilian

as producer of "rational" economy 10 7 Survey on China Inset

For latest Share Index phone 01-246 8026

Economic activity in UK may be starting downturn

BY PETER RIDDELL, ECONOMICS CORRESPONDENT

Economic activity in the UK may be starting to turn down from the buoyant levels of early summer. The latest Confederation of British Industry trends inquiry shows a marked deterioration over the past two months in the outlook for manufacturing industry's orders and output.

points particularly to a weaken-ing in export order books compared with earlier in the year. More companies report adequate or more than adequate stocks of finished goods, which reflects lower than expected demand at home and abroad.

become much less buoyant The findings provide the first firm indication of the way in which the economy is moving. CEI economists say they sug-gest that a turning point has

occurred. Hitherto, the evidence has been less clear. The labour market has been tight, especially in the South-East, and total output, measured by real Gross Domestic Product, grew by 3 per cent in the April-June period.

That, however, largely represented rising North Sea oil production and a recovery from the depressed levels of the winter when had weather and strikes reduced activity. The consumer boom that pre-

ceded the rise in value added tax has made it difficult to draw

The inquiry, results of which slowdown in the growth of bank the past two months. The change are published this morning, lending.

The CRY controls trends companies employing fewer than lending.

The CBI's quarterly trends companies employing fewer than survey in July gave a warning that the outlook for orders and goods industries. output had become much less

Consequently, expectations about the volume of output over the next four months have ably in the past month. The ably in the past month. The inquiry was conducted in the first fortnight of this month and covered 1,837 manufacturing companies.

The balance of companies reporting total order books below rather than above normal has 12 months." increused from 4 to 12 per cent in July and 18 per cent this month. The slackening in de-mand is widespread, although producers of consumer goods are in a stronger position than those in capital and intermediate

The weakening in export demand reflects the cumulative impact of the rise in sterling and slowdown in the growth of world trade.

The balance of those reporting below, rather than above conclusions from the full in normal export order books has retail sales last month and the risen from 10 to 28 per cent in

The inflation outlook does encouraging, but the supporting not, however, appear to have evidence then was tentative. deteriorated further, as the pro-The latest findings show that portion of companies expecting the earlier trend has become to raise their average domestic firmly established and that prohigh levels as for the past few months.
The CBI's pessimism is sup-

ported by the latest monthly economic report from the London Chamber of Commerce and Industry, which says that British industry faces "a grim

The Chamber says the Government is taking grave risks with industry facing tough monetary constraint, a profit squeeze, rising costs and an overvalued pound, and some export-led companies might go

While the attempt by the present Government to squeeze inflation out of the system is highly commendable, their policy of strict monetary orthodoxy is now in danger of turning into a straitjacket."

Consumer confidence survey

Engineering employers sceptical on union curbs

BY CHRISTIAN TYLER, LABOUR EDITOR

uniori by the Engineering Employers' Federation, one of the most influential industrial could be decisive. relations bodies in industry. There are alrea

legal remedies for closed-shop problems, especially that of the worker who objects to joining a icithin the European Monetary trade union. .It urges the Government not

to restrict general immunity of frade unions from prosecution they take industrial action, at least until statutory curbs on "secondary picketing" alone have been tried out. These views are in papers, not

currency may diverge from its
"central rate" against the
European Currency Unit
(ECU), itself a basket of Euroyet published, sent to the Department of Employment at the weekend. They will be seen by Mr. James Prior, the Employment Secretary, when he returns from holiday temorrow on the eve of talks with TUC leaders on his consultative document.

urged clearer rules for expenditure by top men at the Brussels Commission, and noted that other Community bodies may The federation raises number of the same objections also need firmer spending guideto the plans as the TUC.

SERIOUS RESERVATIONS Though its suspicion of the be confined at present to the behaviour have been reintroducing the legal category of "conscientious objector." its advice about union immunities

There are already signs that The federation declares itself the option of making all trade sceptical of the value of further union branches of commercial the option of making all trade contracts vulnerable to court action, an option favoured by senior Conservative lawyers,

may be quietly dropped.

The TUC claims that this change would outlaw all forms of industrial action, whether first-hand or "secondary," and virtually remove the right to strike.

The engineering employers are considerably less hawkish about the plans than the Confederation of British Industry, partly because the federation leaders feel it would be at the sharp end of the legislation. If their plea for caution is ignored, they will try to have the Bill changed as it goes through Parliament.

A paper by the federation's management board says that " on balance " legislation should

about the Government's plans closed-shop reforms is unlikely narrow issue of "secondary" for legislative curbs on trade to sway the Government from picketing. But it adds: "Certain actions

by shop stewards in the current national dispute, in threatening to interfere with commercial blacking of sub-contractorshave tended to harden employer opinion in favour of a more fundamental change in the

If such interference were to become a regular weapon, there would then be a strong case for reverting, as the Government suggests, to the 1974 position, when immunity was restricted breaches of employment contracts only.

Even a revision of picketing rules and immunities, it says, could throw up many practical difficulties, for instance, how to define the "place of work."
"It is probable that no amendment of the law can

guarantee that practical problems can easily be overcome, perhaps even in a Continued on Back Page

Unions seek tougher TUC line.

Venezuela to revise almost all oil supply contracts next year BY RAYMOND WHITAKER IN CARACAS

Countries, plans a wide revision of almost all its oil-supply contracts next year. Several features of its pro-

posals are new to OPEC and might set a precedent in the organisation. Contracts for all the country's oil exports, except about 100,000 barrels a day, are to expire on

December 31. Venezuela ex-ported 2.1m of its 2.4m barrelsa-day total production in the first three months of this year. Sr. Alirio Parra, international marketing director of Petroleos de Venezuela, the State oil mozopoly, said that the simultaneous expiry of so many contracts had given the country a

unique opportunity to decide The main features of the new contracts will be-A reduction in the proportion of crude sold to the big oil com-

panies, which buy nearly threefifths of Venezuela's exports, and a search for new markets, with attempts to sell more oil directly to consumers; Contracts will run for

shorter periods, and notice of price increases will be reduced from 30 days to between three and five days. "Contractual tolerances," permitting buyers to accept up to 10 per cent more or less than contracted for, will be practically eliminated;

VENEZUELA, the sixth largest Higher exports of heavy Petroleos de Venezuela oil producer in the Organisa- crude, abundant in Venezuela, expects the upward pressures on tion of Petroleum Exporting and a switch in the country's oil prices to continue in 1980. refineries to exports of distil- Efforts to sell directly to con-lates from scarcer light and sumers such as North American medium crude, which will increase revenues in the short sified, possibly involving taking term. The last part of that strategy

depends heavily on the fuel oil shortage in the U.S., which buys slightly more than a third of Venezuelan crude exports. If the shortage is alleviated by a mild winter or early success

for President Jimmy Carter's conservation proposals, Venezuela's marketing plans will be thrown off course.

Sr. Parra said Venezuela wili

he able to maintain present production levels of light and medium crude for two years. In the first quarter of this year, 828,000 barrels a day of light and 805,000 of medium were extracted, while heavy crudo output was 711,000 barrels a

day. Exports of heavy crude will be increased to about 750,000 the Venezuelan oil minister barrels a day next year and said he would seek a broader barrels a day next year and said he would seek a broader about 900,000 in 1981 policy on price increases when Venezuela's light crude reserves the OPEC oil ministers meet in about constitute only a fifth of the country's 18bn barrels of proven

markets, but emphasised that the reduction in sales to big companies would not be dispower companies will be intenin exchange for oil. Sr. Parra said the study had

taken into account Venezuela's obligations to neighbouring South American countries, but added that Venezuela did not want to be the sole oil supplier to any country.

On prices, he said Venezuela wanted more flexibility within the OPEC framework, so that producing countries could react more quickly to market condi-

Although Venezuela's output is considerably less than that of producers such as Saudi Arabia, Iran and Iraq, its greater ex-perience in marketing means that it often leads the way for other OPEC countries.

Sr. Humberto Calderon Berti, Caracas in December.

Sr. Berti wants to expand OPEC's role beyond that of a Sr. Parra said that the price-fixing cartel and would country wanted to diversify its like the organisation to promise the industrialised countries a long-term price structure in return for greater concessions in the north-south dialogue.

Strong pound hits engineers' exports

By Hazel Duffy,

THE STRONG pound's adverse effects on UK manufacturers' International competitiveness is demonstrated in a report today on the shortterm outlook for mechanical

engineering. Between 1976 and mid-July 1979, it shows UK machinery export prices have risen approximately 44 per cent against U.S. prices, 41 per cent against Japanese prices and 16 per cent against West German prices.

The report, from an indestry working party which includes representatives of employers, trades unions and the Government, predicts a "disturbing" picture for the industry over the next 18

It points out that the Government's budgelary mea-surers will be effective only in

the mgdium-to-long term.
Meanwhile, the industry
faces the problems brought
about by the worldwide oil upheaval, while at home investment is expected to fall off in the latter half of this year, and through 1980, causing a steep fall in orders for engi-

neering products,

The industry traditionally relies on a fairly high level of exports to survive. Last year, exports accounted for 42 per cent of the industry's sales.

But its decilining inter-national competitiveness has led to this figure being stable for only the past four years even though world demand for engineering products has

The report emphasises that the strength of sterling is not the only factor influencing international price competi-tiveness. But in the other two —the rate of inflation and the rate of productivity growth— the industry has fared worse than most of its competitors.

These factors should have een enough to have ensured gradual depreciation of sterling. Instead, there has heen the recent strengthening of the currency reflecting the UK's oil resources.

While the strength of sterling may prove only temp-orary, the report warns that there may well be some engineering products requiring a relatively low level of skill which will face growing competition from the newly industrialising countries in

Iran forces mobilised against Kurds

BY ANDREW WHITLEY IN TEHRAN

THE IRANIAN authorities claimed, asking: "Why hasn't the Government asked me what is going on?"

The governor-general's comof the lifting of the siege of the border town of Paveh by militant Kurds, and banned the region's main political organisa-tion, the Kurdistan Democratic

Popular emotions are reaching near civil-war hysteria, and volunteers are reported by the state radio to be coming forward to fight the Kurds.

In a dramatic interruption of its main news transmission yes-terday, the radio broadcast a message from Ayatollah Khomeini, the country's religious leader and unofficial Head of State, calling on all security forces to combat what it described as another "very critical situation" in the provincial capital of Sanandaj.

Rulers

Meanwhile, in Tehran, the Council of Experts to examine the country's draft constitution formally opened yesterday. In an eve-of-session address to the delegates, Ayatollah Khomeint said that, if Iran's new rulers had behaved like other revolu-tionaries, "and killed a few thousand of the evil ones imme-diately, there would be no problems now."

Over the next month, the clergy-dominated assembly is expected to revise substantially in the south-west of the country the present draft, to make it came under automatic weapons into a more thorough-going fire on Saturday, according to Islamic document. The Ayatol- Pars yesterday. No damage lah warned the delegates in a war said to have been caused, message read out at the opening and the unidentified assailants ceremony that they would be escaped.

betraying their electors if The attack followed a series "even one article is not of bomb explosions last Thurs-Islamic.'

He attacked the pro-autonomy KDP in exceptionally violent terms. Shelkh Ezzedin Hosseini, the popular Kurdish religious leader, was said to be "seditious," and both he and Dr. Abdurrahma Cassemlou, the KDP's secretary-general should be punished, the Ayatollah said.

Mr. Rashid Shakiba, the Kurdistan provincial governorgeneral, yesterday denied that heen taken hostage by the

There was no truth either in the reports that the Sanandai army base was under attack, he failed.

The governor-general's com-ments and other independent statements that this important provincial city is calm suggests that a scare may be being deliberately manufactured to justify sending army reinforce-ments to Kurdistan.

Mr. Shakiba said the only incident in Sandaj yesterday had been the disarming of a bus-load of what he described as "irresponsible youths" by

In contrast, Dr. Qassemiou vesterday appealed to world icaders to save the Kurdish people from "genocide." In an open letter, he said full-scale war was under way in Kurdistan, a fate he believed also intended for all the other non-

Persian peoples of Iran. The letter said a "black religious dictatorship of a medieval kind " was being established in Iran. The radio and television broadcasts were the "cry of fanatical Shi'ism" for the massacre of Kurds.

Dr. Qassemiou asked foreign statesmen, including President Jimmy Carter of the U.S., and Mrs. Margaret Thatcher, to intervene to prevent "the total annihilation of the Kurdish

In other major developments: Oil installations and pipelines

day on bridges and other vital communications points not far from the main Arab-Iranian towns of Abadan and Khorram-

9 The remaining Left-wing daily newspaper, Peygham-e-Emrouz, was formally banned yesterday. Nine other publicainvestigation with a view to being closed,

Revolutionary guards yesterthere had been any disdurb- day attempted to take over the ances in Sanandaj warranting Tenran beadquarters of the the despatch of central Govern- Mujaheddin-e-Khalq guerrillas, ment forces. He denied the a powerful and well-armed state radio's claims that army Islamic radical organisation. The a powerful and well-armed vehicles and personnel had been attack was temporarily blocked, attacked, and that women had pending the outcome of negotiations involving the Tehran clergyman, Ayatollah Taleghani, A similar attempt made last week without official backing

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WORLD TRADE NEWS

on savings

THE EUROPEAN chemical industry, which consumes nearly fifth of the energy used by EEC industry is pessimistic about its ability to cut consumption significantly over the next

Significant savings have been made in the last decade, but the industry is forecasting a reduc-tion of less than I per cent a year in 1978-37.

cut their energy use-measured by the amount of energy used per unit of production-by about 5 per cent.

The Dutch industry has had most success. By 1977, it was using only 77 per cent of the energy needed in 1970 to manufacture each tonne of product. By 1987 this is forecast to drop to 71 per cent of the 1970 level, making Holland still the most efficient energy consumer.

A report by the European Chemical Industry Federation says the industry as a whole cut energy use per unit of out-put by 16 per cent in 1970-71. By 1982, it is forecast to be using 20 per cent less energy than in 1970, with a further fall to only 76 per cent of the 1970 level by 1987.

The federation empects EEC chemicals output to grow by 4 per cent a year in 1877-82, and by 3.7 per cent a year in the five years to 1987. Growth averaged 3.7 per cent a year

from 1972-77_ The Belgian industry made least progress in 1970-77, with a reduction of energy consump-tion of only 8.5 per cent. It was followed by France (14.4 per cent). West Germany (16.2 per cent). the UK (16.4 per cent). Italy (18 per cent), and Holland (22.8).

In 1977, the EEC chemicals sector consumed 78.7m tonnes of coal equivalent as energy and 79m tonnes of coal equivalent as feedstock.

Most potential savings have already been made by scaling up the size of plant; the recovery of waste heat has already been pushed to a high level; and the need for greateenvironmental protection leads to higher energy consumption.

Forest fires break out again in France

Emergency precautions were in force throughout the French Mediterranean region yester-day, after forest fires broke out again. The fires have already destroyed over 65,000 acres, David White reports from Toulon.

Two people, believed to be nav. I firemen, died on Saturday as campers and bather were evacuated by boat from rocky inlet near Marseilles.

Tanzania rations fuel

economic crisis in years, has announced strict petrol rationing, our Dar-Es-Salaam corres-pondent writes. All filling stations will close from Thursday evening until Monday morning, except a few to supply taxis and long-distance lorries. Car owners are to be rationed to 13 gallons a week.

Sudan Cabinet change

President Jaafar Nimairi has removed seven ministers and two top advisers, and brought the leader of the Moslem Brotherhood into his Cabinet, AP reports from Khartoum The reshuffle came after government attempts to end food and fuel subsidie led to 10 days of rioting earlier this

Prague delays trial

Czechoslovakia is apparently delaying the trial of 10 civil rights activists to avoid it coinciding with the anniversary of the 1968 Soviet-led invasion, on August 21, AP reports from

Chad accord reached.

African Foreign Ministers in search of a solution to the Chad civil war have agreed on a general ceasefire and the dissolution of the Government of National Union in N'Djamena, according to Lagos Radio, Reuter reports. Representatives of Chad's warring factions attending the meeting in Lagos agreed to form a coalition Government,

Major EEC Mrs. Gandhi holds the key energy user pessimistic in confidence debate

BY K. K. SHARMA IN NEW DELHI

MRS. INDIRA GANDHI, considered a spent force in Indian politics until three weeks ago, has at her mercy the fate of Prime Minister Charan Singh's. shaky 22-day-old Government. In the vote of confidence

debate which is due to open today in the Lok Sabha (Lower House of Partiament), the way in which Mrs. Gandhi directs the 73 members of her Congress (Indira) faction will be crucial. In 1973-77, the EEC's six main chemicals producing countries cut their energy use—measured by the amount of energy used to fall.

Aware of the importance that she has suddenly acquired, Mrs. Gandhi is holding her cards close to her chest. It is unlikely that her decision will be known until the vote takes place.

While the vote of confidence debate begins today, the vote itself may not be held until Wednesday, since discussion on the Prime Minister's motion is expected to last 15 hours. . Without support from Mrs.

Gandhi's Congress faction, Mr. Singh cannot hope for more than 238 votes, which is 30 votes short of the 268 votes needed to

Mr. Jagjivan Ram, the Harijan (Untouchable) leader of the Janata opposition party. faces a similar predicament. He is staking a claim for Premierable on the grounds that he leads the largest single



party in the Lok Sabha, with 204 members. Success for Mr. Ram would also be conditional upon support from Mrs. Gandhi. Both Mrs. Gandhi and Mr. Singh have bitterly attacked Mr. Ram's Janata Party as sectarian and opposed to the interests of poor - which each party claims to represent.
Mrs. Gandhi is violently opposed to Mr. Ram, who was once in her Cabinet but deserted

her just before the 1977 General Election, thus contributing to Mr. Charan Singh has gone out of his way to find places in his Cabinet for Muslims. Christians, and Harijans during the trading for support in this

week's vote. He hastily drew up a 27-point programme which was unveiled on Saturday and reads more like an election manifesto than

an early election. She is pro-bably the only Indian politician who stands to gain by dis-solution of the 28-month-old Lok Sabha.

A recent poll shows that 64 per cent of the Indian people feel the country was better off during Mrs. Gandhi's emergency rule, and 75 per cent want a mid-term election. As many as 48 per cent of the people want Mrs. Gandhi back as Prime Minister, since many feel that India's patchwork coalition is more concerned with hanging on to power than governing. Mrs. Gandhi will undoubtedly try to cash in on

Lloyds angers Gulf insurers

BY OUR FOREIGN STAFF

against the Lloyds Insurance premiums "blackmail." underwriters decision to apply "war risk" premiums to ship-ping in the Gulf area.

In Bahrain, Mr. Emro Al-Kais, ance Company, said Gulf in-crude oil exports. The premium terests could retaliate by boy-would be to cover "risks of

GULF INSURANCE agents met underwriters' market to handle the size of the premium he had in Baghdad over the weekend to shipping insurance. A local discuss how they might retaliate newspaper called the war risk

Mr. Abdel-Aziz Al-Sagr, chairman of Kuwait's Chamber of Commerce and Industry, said in an interview with the Kuwaiti News Agency that Gulf States an executive of Al-Ablia Insur- should impose a premium on on Tuesday last week. Lloyds cotting the London market and threats, rumours and rumourup a re-insurance mongers." He did not specify the area.

in mind. It is likely that Gulf insurers

will send a delegation to London with the aim of persuading Lloyds to revoke its ruling. Lloyds' decision to raise in-surance on the hulls of vessels operating in the Guif took effect justified its action on the grounds of prolonged and apparently continuing hostilities in

Slower Irish growth forecast

BY ROBERT MAUTHNER IN PARIS

IRELAND'S GROWTH will be the previous fiscal stimulous, development programme, but substantially slower in 1979 than prospects are much less bright that the programme could not ing to the annual review of the posable incomes. Irish economy published by the In 1979, GDP is expected to Organisation for Economic Co-operation and Development high by OECD standards, but inflation, but ministers will much lower than the 1978 rise admit in private that it is prob-

OECD over the past two years, prices expected to increase by relatively cheered by the gist with real gross domestic proas much as 12 per cent, comducts (GDP) rising by 5.5 per pared with only 8 per cent for "It shows that relatively speakcent in 1977, and as much as 7 export prices, the payments ing the Irish economy is doing per cent last year. This was a deficit is expected to widen to well." He added: "Just how remarkable achievement in a 16450m (£413.5m), from only well we actually do depends on flow-growing international en- If150m in 1978. vironment, the OECD says.

last year, its infiation much from this year. The phasinghigher, and its current account out of tax incentives is expected higher, and its current account out of tax incentives is expected higher oil prices, estimated at deficit likely to triple, accord to moderate the growth of disabout 1595m in 1979.

much lower than the 1978 rise admit in private that it is prob-Ireland's ambitious develop of 7 per cent. With imports ment programme, adopted in fising by 10.5 per cent in mid-1977, led to it having the volume, compared with 8.5 per Minister for Economic Planfastest-growing economy in the cent for exports, and import ning and Development, seemed

have foreseen the effect of

Stewart Dalby adds from Dublin: The Irish Government Mr. Martin O'Donochue, the our own performance at home. The OECD Secretariat points And if we repeat the series of However, as a result of the out that a temporary increase strikes of the first half of this tightening of monetary policy in the payments deficit was expear we will be in poor shape and the withdrawal of some of pected under the national as we go into the 1980s."

Tanker owner Reksten on trial

BY FAY GESTER IN OSLO

Norwegian tanker magnate, goes on trial in Bergen today for a long list of alleged tax and currency offences most of them involving shipping com-panies outside Norway. The substance of the charges is that profits from lucrative tanker deals early in the 1970s were channelled to companies registered in tax haven countries, thus enabling Reksten to evade several hundred million kroner

The S1-year-old ship owner, who is in poor health, has warned the authorities that although he will attend the trial in Bergen's municipal court, he will remain silent. He intends to save his strength and his arguments for the inevitable subsequent hearing in a higher pronounced not by a judge but Press has christened the "black by a jury.

Reksten's defence counsel is prosecution has called 33 wit-

years to prepare. A Bergen loans have been guaranteed by court indicted Reksten on tax the state-backed Norwegian and currency charges in June guarantee institute. Critics in 1976 following accusations by Norway's left wing Press have the Bank of Norway and the complained that taxpayers' Inland Revenue.

assets all over the world - a abroad.

MR. HILMAR REKSTEN, the court, where the verdict will be document which the Norwegian

The case against Hilmar Rekalso expected to stay silent dur- sten has political overtones. His ing the trial for which the shipping companies in Norway which have been losing money nesses many of them from all through the tanker slump toroad. are big borrowers from Ham-Today's case has taken three bros Bank of London. These money may have to be spent to The court previously refused rescue Reksten companies while to give police access to a file the Reksten family itself probwhich lists the Reksten family ably has extensive secret assets

Colony cuts loan growth

MENACE, MYTH OR **MAGIC** FORMULA?

see page 5

BY PHILIP BOWRING IN HONG KONG

BOWING TO pressure from a cent. Critics have accused the worried government, Hong banks of moving very be-Kong's Exchange Banks Associal latedly, both to raise interest tion, the cartel of leading banks, announced on Saturday another 1.5 per cent increase in the prime lending rate to a new record of 14.5 per cent. Deposits rates were increased by similar amounts so they now range from 9.25 per cent for three months and savings deposits to 12.5 per cent for 12 months. The association said that it was responding to both market and monetary conditions. It noted the recent increase in interest rates worldwide. How-ever the extent of the rise indicated an attempt at shock tactics to deter loan growth. Credit tics to deter loan growth. Credit has grown at over 46 per cent to cause the HK dollar, which

over the past year. Despite a succession of in-terest rate rises taking prime but the stock market is likely to from only 6 per cent a year ago see an abrubt end to its recent and government appeals for indian summer. Hong Kong slower loan growth, June figures now faces both record interest showed lending still growing at rates and a weakening export an annual rate of about 36 per- outlook.

rates—the last rise was in April and continuing to grant big Whether the new rate rises

will bring a rapid reduction in credit growth remains to be seen. There is a feeling that it will dampen spending on consumer durables, but the banks are already overcommitted to loans to the building and property sectors so may continue lending to increase lending to ing to meet these commitments. At the same time property developers and home buyers are unlikely to be prepared to leave buildings uncompleted.

had been firm in anticipation of

with the EEC Commission in Brussels regarding the recent decision by France requiring importers of sweaters to apply authorisation before bringing the goods they have purchased into the country.

WORLD TEXTILES

the Italian Textile Industry Federation, in an interview with the French economic newspaper Les Echos, in which he also expressed the opinion that the Italian

a programme of action. The seven-page statement has fuelled speculation that a mid-term election is close. Many believe that Mrs. Gandhi wants

the popular disgust at the the country's minorities and current political horsetrading.

BY ROBERT MAUTHNER IN PARIS

Italy reacts against French imports curb

THE ITALIAN Government intends to lodge a complaint exports to Italy.

This was stated by Sig. Guide Artom, the president of

The French authorities last week introduced what they described as a "technical risa" for imports of sweaters from OECD countries, which had risen by nearly 35 per cent in the first five months of

Officials emphasised, howaimed purely at monitoring the quantities of sweaters involved and their country of

Government would take be automatically granted on reprisals against some French request, they said.

It is nevertheless clear that the measure was aimed mainly at Italian exporters and that the requirement of a technical visa is an administrative obstacle to trade which appears to be contrary to EEC regulations, particularly since the Commission's prior permission was not sought.

Replying to French criti-cisms that a large proportion of Italian knitwear was manufactured at abnormally low cost on the black market, Sig.

quick fashion changes as well as

The three major exporters are

likely to fight hard to maintain

a market existed in Italy.

But he claimed that it represented only a very small represented they a very small proportion of textile manu-factures and that its produc-tion was destined mainly for the domestic market and not for export. Moreover, the cost of an hour of labour in the official Italian textile

cios

industry was higher than it was in France, he said. The main reason why the Italian textile industry was more competitive than that of its European neighbours was its modern equipment.

The market is already weaken-

ing now. Hong Kong's textile exports to the U.S. so far this

year are down 16 per cent in

volume terms. And Taiwan recently announced a marked

reduction in quota utilisation rate for the first half. The second half is expected to be worse as U.S. recessionary trends take a grip.

As U.S. pressure for renego-

As U.S. pressure for renego-tiation increases, major supply-

ing nations will argue that Washington cannot ask for further restrictions on the basis

U.S. renegotiation moves worry Asia

decline

BY PHILIP BOWRING IN HONG KONG

and Taiwan are becoming increasingly worried at U.S. ressure to renegotiate bilateral textile agreements to make them even more restrictive. The U.S. pressure to go back on agreements concluded under the Multifibre Arrangement which are less than two years

old may harden the attitudes of developing countries generally at Geneva where talks on trade "safeguards"

are taking place.
Ironically, the U.S. pressure
on its three largest developing
country suppliers of textiles and garments comes at a time when European countries are up in arms against an alleged U.S. invasion of their synthetic fibre and fabric markets. The U.S. -pressure on Asian

suppliers is the direct outcome of a paper published by the U.S. Administration in February on assistance for what is termed the "beleaguered" U.S. textile industry. The textile programme out-

lined in the paper was described as "an integral part" of the recent Tokyo Round trade talks of the General Agreement on Tariffs and Trade, concluded in Geneva and which has received Congressional approval from the U.S. and other key industrialised countries.

This is seen as meaning that the programme is a quid pro quo for getting U.S. industry and Congressional support for or at least reduce, flexibility. the tariff cuts and other The U.S. industry claims that aspects of the Tokyo Round flexibility provisions can allow exports of a particular category

exporting countries "-meaning to the normal allowable 6 per Hong Kong, South Korea and cent annual increment. Taiwan—to enter into nego- However, supplying countries tiations. All three have, unwill- argue that this is largely

SHIPPING REPORT

Moderate

for tankers

THERE WERE no major upsets

charters.

of crude oil. :

HONG KONG, South Korea ingly, agreed to meet with U.S. theoretical and would rarely ensure that every time the marofficials, but so far have not yet cause market disruption. They agreed that any negotiation on say that flexibility is essential the subject of the U.S. adminis- for an industry as volatile as tration paper is either necessary textiles, which is subject to

However they are well aware sharp economic cycles. Abolish-that pressure is intensifying ing flexibility would make the President Carter, faced with market less able to cope with the combination of an election consumer demand fluctuations. year and rising unemployment looks likely to try to deliver a domestic sectional promise at flexibility.
the expense of U.S. inter- They will probably fight even. national obligations.

actional obligations.

harder against another outlines
In his meetings with export- proposal in the U.S. Administra-

U.S. pressure for the renegotiation of bilateral textile agreements is increasing. But major supplying nations will argue that Washington is in no position to ask for further restrictions on the basis of market disruption when their own industry's sales are already on a sharp

ing country officials, Mr. tion paper. That is, to link Michael B. Smith, the U.S. chief quota levels in one year with textile negotiator, has been the previous years trade. per cent of a quota category from one category to another. They also allow for some unused quota-normally 6 per centto be carried over from one year to the next and a similar amount to be borrowed from

The U.S. wants to eliminate. Now the U.S. is trying to to be increased in one year by pressure the "leading major about 18 per cent, in addition

the subsequent year.

concentrating his attentions on According to the U.S. paper if what are known as the flexi- a quota level was only partly bility provisions of existing used one year, the next year it restraint agreements. These would be effectively reduced to allow a certain amount of the level of the preceeding "swing"—averaging about 5 year's trade plus one half of the amount of the unfilled quota. Supplying countries see this as a formula for gradual but enforced retrogression in trade.

Even in a good year, overall quota levels are never fulfilled because quotas often exist in categories for which there is weak demand or the supplier is not competitive. For example, last year, which was a good one for textiles. Hong Hong's quota to the U.S. was

BY STEWART DALBY IN DUBLIN

the first six months of this year Pelicy to a deficit of £789m compared with £435m for the comparable have started to soar, partly as six months of 1978.

to the oil tanker trading market last week, and most owners gained moderate rates for Owners of very large and ultra large crude carriers operating out of the Gulf for discharge in the West recorded Worldscale 461/471. Filipino charterers paid rates at Worldscale 56 for 230,000-ton cargoes

However, owners operating from the Gulf faced the pros-pect of increased operating costs as a result of the declaration by insurance underwriters that the Gulf area had been termed a war zone. Current rates have not been affected, so far. Freight rates remained steady

for most of the week, and brokers saw little prospect of immediate increases as long as 2.25m tons of tanker tonnage remains idle, awaiting cargoes in The total of idle tonnage up to the end of August is esti-

mated to be 4m tons, and slack demand for small and mediumsize tankers has contributed to the idle tonnage. A 170.000-ton vessel gained Worldscale 60 for western discharge, and a 130,000-ton vessel for India gained Worldscale 65. A 52,000-ton vessel chartered by

Japanese interest gained Worldscale 210. Demand out of West African markets slipped last week, but in the Mediterranean, trading was more active. There was little change in the Caribbean markets and a

60,000ton tanker gained Worldscale 170 for discharge in the On the dry cargo markets. brokers suggested the bottom of the "summer slump" had

been reached.

Record Irish trade deficit

trade deficit of £155m for the month of June. This brought the external trade balance for

experts. Cattle and beef sales prices Consumer durables like dent that reserves (currently abstad, which together with cars and other items have also about squal to four months dairy products make up 80 per continued to increase. It has imperis) will not be badly cent of Ireland's agricultural become clear that the govern depasted and says the balance exports, have slowed down considerably. This is because cent limit on the rise in credit covered by capital inflows.

translated into a balance of The worsening deficit was due the Irish pound against sterling payments shortfall on current to a combination of singuish last March. The demand for second of 1556m. This year the exports, particularly food capital goods has continued to government has predicted a exports which account for just grow and of course the depre-balance of payments deficit of under half of total visible clation has meant higher at least 2500m. It feels configured which together with the configure of the prices. Consumer durables like dent that reserves (currently about the payments are configured to the payments and the payments are configured to the payments.

BY WILLIAM DULLFORCE, NORDIC EDITOR, IN STOCKHOLM

tonne to \$475 a tonne from

maintained unchanged prices for the third quarter, even after the North American mills had raised their pulp rates. The Nordic increase, the third this year, means that the lead pulp price will have gone up by \$140 a tonne from the bottom level reached in 1977.

The Swedish producers point out that since the last increase the dollar-rate has fallen from SKr 4.40 to SKr 4.20, entailing

forest owners are concluded. Industry experts had anticipated an increase to \$480-185 a tonne in the price of bleached sulphate pulp, the leading grade, but the Swedish mills grade, but the Swedish mills on capital on capital are not, anxious to repeat the mistake they made in 1974 and present much lower than 1975 when swift price advances broke the market.

Nordic producer stocks are at present much lower than normal. The Swedish mills broke the market.

and Paper Association, estimates that at the new prices the least effective mills will be able to balance costs and income while the more modern plants will

decision on its prices could also 1975 when swift price advances normal. The Swedish mills broke the market have about 180,000 topnes, or The increase had been anticipated particularly as the also lead to an increase in sup-stock while the Finnish mills Swedish and Finnish producers plies of North American pulp held some 100,000 tonnes.

ebtain a comfortable return

Japan's car exports fall

TOKYO Toyota Motor said up 60.0 per cent and 3.880 to its rehicle exports in July fell Talwan, down 27.6 per cent 18 per cent to 116,100 from Toyota said its vehicle pro-118,200 in June, but rose 011 duction in Jaly rose 2.5 per cent per cent from 116.000 in July from June to 278.500, the second last year. At the same time highest monthly increase on Nissan Motor said its vehicle record and rose 13.1 per cent exports in July fell 0.3 per cent from a year earlier. Nissan said to 95.300 from 95.600 in June, it produced 185.400 in July, but were up 7.8 per cent from down 7.8 per cent from June 88.400 in July last year.

Traveta's July exports from year earlier.

Toyota's July exports comprised 73,300 passenger cars, 40,900 trucks and 1,900 buses, Thailand's Prime Minister while Nissan's total included Mr. Kriangsak Chomanan has handed over a letter of intent to representatives of a Japanese consortium of steel producers and it exported 3,600 consortium of steel producers Toyota's July exports com-

74.200 cars, 20,200 tracks and 900 buses.
Toyota said it exported 3,600 vehicles to Britain, up 129.2 per cent from a year earlier, 51,300 vehicles to the U.S., up 24.6 per cent, 9,000 to Saudi Arabia down 2.5 per cent and 3,400 to Australia, down 20.7 Nissan said its exports included 43,600 to the U.S., up 12.7 narrosuit from a year ago. 12.7 per cent from a year ago; 12,000 to Britain, up 8.6 per cent, 3,300 to Saudi Arabia, up

year earlier. Reuter

to supply 595 kilometres of steel pipes for a natural gas project, Reuter reports from Bangkok. A STATE OF THE STA The Japanese consortium comprises Nippon Steel, Nippon Kokan, Kawasaki Corporation and Sumitomo Metal Industries.

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FINANCIAL TIMES, published daily except Standard and holidays. U.S. subscription rates \$365.00 per annum. Second class postage paid at New York N.Y. and at additional mailing to 51.0 per cent 5,400 to Mexico. Control of

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of market disruption when their own industry's sales are already on a sharp decline.

However, the weaker the market for exporters, the weaker it is likely to be for domestic producers, and thus A key factor in the U.S. equation could be exports.
Though a big net importer of textiles, U.S. exports were a significant £2.6bn (£1.2bn) last year, compared with two the stronger the pressure for

37bn Imports this year are expected to fall 10 per cent in volume while exports should rise significantly, helped by the cheaper dollar, lower U.S. domestic oil prices which gives advantage to U.S. synthetic fibre and fabric makers, and the heavy investment in the most modern machinery seen in some sections of the U.S. industry.

Apart from Battling the U.S. about 80 per cent foldilled. This on the basis of the need to year the figure is likely to be honour agreements, the Big down to 70 per cent as the mar. Three Asian exporters will tet has welkened. Any system argue that the U.S. industry is basing quots levels on the pre-not quite as "beleagured" as is vious year's actual trade will being made out.

Swedish pulp prices to increase

SODRA SKOGSAGARNA, the a loss in kroner terms of around to Western Europe, even though southern Swedish forest owners \$20 a tonne on pulp, or close to for the time being the market southern swedish forest owners' company, took the lead last half the latest increase. It will increase its price for pulp bleached sulphate pulp by \$40 a forest owners are concluded. October 1.

Other Swedish companies are expected to follow suit this week, and a spokesman for Finncell, the Finnish pulp mills' sales organisation, said a decision on its prices could also be expected this week.

World Economic Indicators INDUSTRIAL PRODUCTION

| U.S. | July 79 152.1 | June 79 152.3 | May 79 152-1 | july '78 145.9 | previous year. +4.2 | base year 1967=100 |
|----------------------------|-----------------------------------|------------------------------------|------------------------------------|-----------------------------------|---------------------------|----------------------------------|
| U.K. West | June 79 116.0 | May 79 114.3 | Apr. 79 | June 78 117.1 | +4.4 | 1975=100 |
| Germany Holland | 1 32.6 125.0 | 126.5 : 120.0 | 129.3 124.0 | 118.9 120.0 | +11.5 +4.2 | 1970 = 100 1970 = 100 |
| italy France Belgium | May 79 140.8 131.0 127.3 | Apr. 79 128.8 129.0 129.1 | Mar. 79 144.0 131.0 126.6 | May 78 133.2 129.0 119.5 | +5.1 +1.6 +6.5 | 1970=100 1970=100 1970=100 |
| japan | Apr. 79 129_3 | Mar. 79 128,7 | Feb. '79 128.8 | Apr. '78 122.0 | +6.0 | 1975== 100 |

Worsted mill to close as demand falls

BY RHYS DAVID, TEXTILES CORRESPONDENT

Yorkshire wool textile group. is to close one of its fine worsted mills in Huddersfield with a loss of around 350 jobs, partly as a result of weak-overseas demand following the rise

in the value of sterling.

The company, Britain's biggest wool textile group with a labour force of about \$,000 is concentrating production of its Huddersfield fine worsted subsidiary at Kirkheaton, and is. closing its Trafalgar mill at Huddersfield. The two mills employ about 760 people, including part-time workers. About 400 will be retained, after the Trafalgar closure, which is to be phased over the next 12 months.

Fashion trends

The strength of sterling has hit demand for worsteds in two of the company's most impor-Japan. Fashion trends over the past year have also swung away from worsteds—the UK industry's main speciality. This, too, has caused a sharp drop in sales on most markets.

In the first three months of the year, owerseas sales of woollens. to 6.5m sq. metres, but worsteds units.

ILLINGWORTH MORRIS, the showed a drop from 4.86m to

The industry has also been affected by higher imports of wool textile yarns and fabrics and of finished garments into the UK. In June, numbers employed in the industry fell by a further 900 to under 54,000 aginst 58,000 a year

Restrictions

In response to pressures from the industry, new restrictions on imports of wooltops combed wool for processing into yarn-from South America were an-nounced last week. The Depart-ment of Trade said quotas had been negotiated by the EEC Commission on imports of tops

from Uruguay.

A similar restriction on imports of tops from Brazil was imposed on August 1 This will limit them to 104 tonnes during the rest of this year, rising to 568 tonnes in 1982.

The EEC is also imposing quotas on imports from Poland into the UK of men's and boys' jackets. These have risen from 39,000 in 1977 to 97,000 in the first half of this year: The permitted limit for the whole of were up in volume from 5.9m this year will now be 120,000

Small firms report criticised

Financial Times Reporter

THE CONCLUSION of the Wilson Committee on financial institutions that there is no "systematic bias" against small firms in the UK financial system is rejected today by the Association of Independent Businesses.

In an assessment of the committee's interim report published earlier this year, the association says such a bias exists. "If the fortunes of the independent business sector are to be improved, that financial bias needs to be acknowledged." The association, which claims to speak for 25.000 companies,

including a quarter of those with a turnover of more than film, makes a plea for the Wilson Committee to make better use of the abundance of evidence and research material available to it. Otherwise, "a valuable opportunity to examine ways of helping the British economy out of its present pre-dicament will have been lost."

The association stresses that taxation is important in any consideration of the finances of small and independent businesses. It suggests that, if an analysis of taxation has not been possible because of the Wilson Committee's terms of reference. perhaps the Government could consider changing the committee's ground rules so as to expedite the work."

It welcomes the proposal to permit UK companies to buy back their own shares, and supports Wilson's interest in a new kind of small firm investment company and loan guarantee

decision challenged

BY DAVID CHURCHILL, CONSUMER AFFAIRS CORRESPONDENT

IMPERIAL TOBACCO's "Spot Cash" instant lottery pro-motion for some king-sized cigarettes is again to be legally challenged.

The Attorney-General will ask the House of Lords to reverse an Appeal Court decision last March which declared the Imperial lottery promotion lawful in every respect. The Lords is not expected to consider the appeal until next January at the earliest.

The Lords' judgment will be significant for the future use of instant lottery promotions in a number of consumer product areas as well as grocery retailing.

Imperial has already re-launched the "Spot Cash" promotion, which offers smokers the chance to win cash prizes of £1 to £5,000. The cigarette packets include cards with several "win-dows" which, when rubbed with a coin, reveal whether a prize has been won.

The Attorney - General's decision to challenge the promotion is the latest move in a long-running dispute over the scheme's legality. Imperial launched the promotion last autumn for three John Player brands. Sales increased by about a third and a 50 per cent jump in market share

British-American Tobacco a major competitor—complained to the Attorney-General that the scheme confravened legislation governing lotteries. The matter was passed to the Director of Public Prosecutions who decided to initiate criminal proceedings against several

Imperial executives.
Imperial sought a civil court roling that the scheme was lawful and the criminal prosecutions should not go ahead. Although the High Court refused to make such a ruling, the Appeal Court ruled that the lottery was lawful. Lord Denning critielsed the DPP for acting "out

of hand."
The criminal proceedings have been dropped now that the issue is to be decided by the Lords.

Although the "Spot Cash" promotion has been re-launched, it does not appear to be enjoying as much success as previously. Imperial still, however, retains its over-all leadership in the cigarette market, especially for the fastgrowing king size sector, which now accounts for six

out of every 10 cigarettes sold. Imperial has some 45 per cent of the king-size market, followed by Gallagher with about 20 per cent and Carreras Rothmans with 19 per

Tobacco cash lottery Telephone workers likely to go back after offer

BY OUR LABOUR STAFF

MEMBERS OF the Civil and Public Services Association involved in the Post Office telephones dispute are believed to have voted for a return to work after a pay offer averaging 17-20 per cent.
The executive of the Society

of Civil and Public Servants meets today to decide whether to recommend an improved offer to their technical and supervisory staff, who operate computer centres at Harmondsworth

phone bills could still be de-

Without 80 key technical and supervisory staff who were in the SCPS, it would be "impossible to restore effective com-puter services," he claimed.

Mr. Gordon Blair, vice chairman of the branch said yesterand Leeds.

But an official of the society's

Post Office Data Processing
branch said yesterday that tele-

layed. Although management the 17-20 per cent offer, and expected the CPSA to end its were prepared to continue the 15-week strike, members of the strike "for much longer."

SCPS were continuing their 19-week strike.

The cost of sending a firstclass leteer goes up today from: class leteer goes up today from 9p to 10p. Second-class mail rises by 1p to 8p.

The new tariff could be the last to be introduced without consumer consultation. The Post Office Users' National Council is to meet the Post Office and Government representatives soon to discuss sett-ing up a "continuing dialogue". on postal charges.

Court staff in strike vote today

AN IMMEDIATE strike that Public Services Association, might disrupt the working of have refused a 9.4 per cent offer London's magistrates courts and are pursuing their demand might be decided today at a to bring their pay-level into line meeting of nearly 500 adminis- with that of civil servants. trative staff.

They will be told that the Home Office has rebuffed their attempt to secure rises of up to 30 per cent by declining to a fortnight. discuss the claim,

The staff, members of the Society of Civil and Public

FOUR HUNDRED engine-

testers who have been on

strike at the Perkins diesel

engine plant, Peterborough,

for a forinight, will vote at a

mass meeting today on whether to stay out. Over

4.000 production workers have

and dangers to employment

of journalists because of man-

agement policies of the Not-

Many News of the World

readers in the South were

without a copy of the paper yesterday. More than lm

copies of later editions were

lost when a dispute involving

machine-room workers stop-

ped production at 2,30 am.

tingham Evening Post.

siready been laid off.

IN BRIEF

The meeting will be at Caxton Hall, London.

Ten days ago, members of both unions agreed to strike in

Mr. Bernard Studd, society's national officer said: "I can produce a case of

which can only be designed to produce industrial ferment and encourage our, members to take strike action." Mr. Alastair Graham, the

association's deputy general secretary, said: "Members will-be very bitter that a meeting has not taken place." Any strike could be spread

outside London by the Association of Magisterial Officers. representing 4,000 staff, halting maintenance payments and the Servants and the Civil and appalling industrial relations issuing of summonses.

Retirement bond sales top £1bn

BY TIM DICKSON

ALL TIME sales of the National double the figure of the compar-Savings Movement's index able period last year. retirement certificates reached the £1bn landmark last issue are likely to be healthy mouth. Receipts in July of this month, since anyone who £27.8m from the issue contri- buys them by August 31 will get buted to a net inflow into the the benefit of July's record rise

from the retirement certificates, the purchase is made, which must be held for at least. Elsewhere, the July picture a year and which are available was not so bright Fixed interest only to men over 65 and women National Savings certificates, over 60, were the best so far including the 18th issue. this year. In the first four brought in a net £8.4m of new months of the 1979 financial money, but premium savings

Receipts from the retirement National Savings coffers of of 4.3 per cent in the retail f26.6m, or f72.3m, including price index. Under the rules, secrude interest. the index figure to which the issue is linked is always two Net receipts for the month months behind the month when

year, they were more than bonds were disappointing, with 120n.

repayments of £10.1m just exceeding receipts of £10m. That is the first time for five years that provisional figures have shown a net decrease.

Holiday spending was thought to be responsible for the £12.3m outflow from the National Savings Back ordinary account, while the investment account. which had a net increase of £8.7m, is expected to benefit from the new higher annual interest rate of 123 per cent to be introduced next month.

The total sum administered by the Department for National Savings has now exceeded

Storm in teacup over Britain's favourite drink

BY OUR CONSUMER AFFAIRS CORRESPONDENT

THE BRITISH tea and coffee industries, together worth more than £575m at retail prices, are locked in a marketing battle over which drink will prove more popular in the 1980s.

Although tea is acknowledged as still being the favourite British beverage, coffee processors say that the trend is towards drinking more coffee. The industry says that, although 10 years ago, seven cups of tea for every one of coffee were drunk, the ratio has fallen to 2.5 cups of tea for every one of coffee.

However, the Tea Council points out that while 51 per cent of households buy coffee

each month, 84 per cent still buy tea regularly. Coffee, although more expensive than tea, has annual sales of £225m, compared with £350m for tea. Tea sales, the industry says, have recovered from a decline

of a few years ago caused by rising commodity prices, to become more popular again. The future lies with teenagers and people in their 20s who will form the bulk of the beverage market over the next

two decades. Many young people consider tea an old-fashioned drink, although the tea industry has just spent £1m on an advertising campaign to persuade them

Perk cuts anger unions

GOVERNMENT PLANS to on company cars would have a with the company car-will face violent trade union opposition, Mr. Terry Duffy, engineering union president warned yesterday.

@ The National Executive of "It is apparent to me that the National Union of Journalists has urged the the Government seems to be hell-bent on making decisions Government to refer the takewithout pre-notification or conover of the Long Eaton Advertiser and its associated sultation with the trade union movement, and that makes us weeklies by the Nottingham Evening Post group to the collision-bound," he said in a BBC radio interview. Monopolies Commission. The union says it would mean "a considerable local monopoly"

"I should imagine the trade unions will be reacting violently to these proposed cuts."

where employees received a cultural and Allied Workers, benefit as a condition of employ- says in a statement today. ment. If that benefit were taken away, Mr. Duffy imagined an

angry reaction" from workers.

crackdown on perks-starting damaging effect on the motorindustry.

. He argued that the overwhelming majority with company cars were forced to use them as a tool of their trade.

Rural workers homes threat

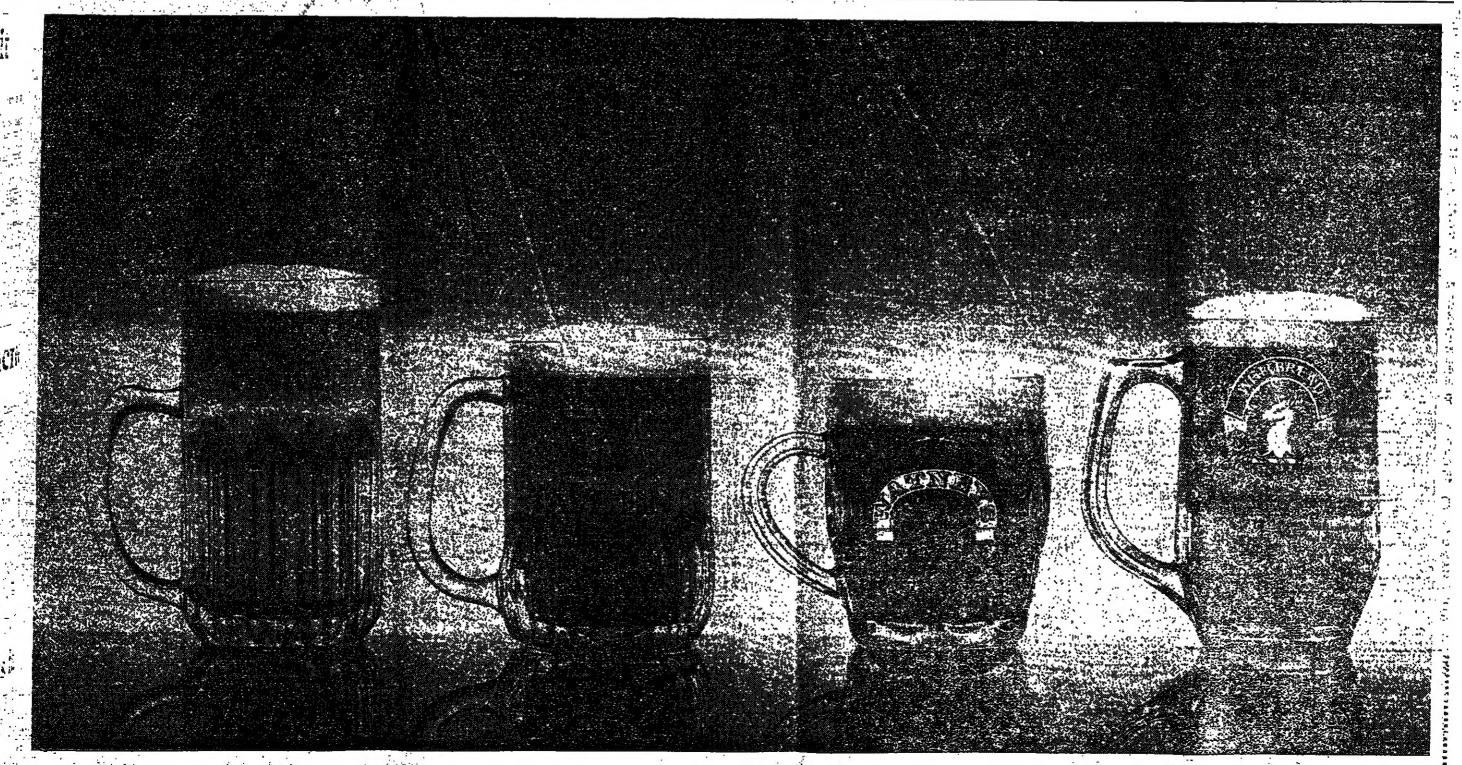
THOUSANDS OF rural workers will become homeless if Conservative proposals to sell off: uts."

council homes go through, Mr.

Jack Boddy, general secretary

of the National Union of Agri-

Selling council homes would leave fewer council houses to As the representative of farmers and farmers when-hundredes of car workers, he ever a farmer needed vacant. forecast that Government action possession of a tied farm cottage."



Who builds the breweries where the brewers brew the beer?

A brewery is not a factory. It's a meeting place of traditional skills and modern technology. It has to be designed and built as an entity.

It's no coincidence that John Laing have been selected as the main contractors for four of the most modern breweries in Britain. The Whitbread brewery at Luton, the Harp brewery at Alton, Watneys

London's brewery at Mortlake are all completed. The new Courage brewery by the M4 at Reading is well advanced, and the first pints of Reading-brewed John Courage should be drawn in 1979.

However, Laing are much more than specialist builders to the brewing industry. This advertisement could have been built round Laing's special

knowledge of building cathedrals, with Coventry Cathedral and the new Roman Catholic Cathedral of Clifton, at Bristol, to their credit. Or docks, constructed from scratch in the Middle East. Or hospitals. Or oil platforms.

More than 20,000 people give Laing this special knowledge in so many diverse fields of construction. Collectively,

they make Laing one of the biggest construction companies in the world. However, size in itself is no virtue. At Laing we believe that our strength lies not in our numbers but in our capability.

make ideas take shape

cast, except that the brokers believe that public-sector

borrowing in 1980-81 will be £9hn. That compares with £10.9hn in the Business School

projections.

The firm believes that if sterling M3, the broadly defined money supply, grows

at 10 per cent a year in nominal terms and the infla-

tion rate peaks at 171 per cent this winter, the fall in the money supply in real terms in 1979-80 should be espsiderably less than in 1974-75 and similar to the dran of 1980-76.

Consequently, the coming recessionary pressures should be shallar to those of 1969-70 and considerably less severe

drop in 1969-70.

sportsm**en**

THE NUMBER of brown hares: pulation is needed tractors. to perfect the coming orders had increased compared to the coming orders had increased compared to the British Field glorany particularly with six months ago. In the last specific the British Field glorany particularly with six months ago. In the last specific to specify has warned medium and larger sized compared to specify has warned medium and larger sized compared to specify has warned medium and larger sized compared to specify has warned medium and larger sized compared to the well-and in some paris. It warns that further public. While relative value of orders of the country, notably Water spending eurs on civil engineer. Temained fairly stable, the workand South-West England, the population is lever than 2.5

Vorld Legomorph (hare) Canterance in Omerio. The fourty was emaidering co-operating with the Game Conservancy on a research

project, he said. In France, where the population was "approaching breakdown." numbers were kept up by restociany. Some hares were being bred in captivity. but most were imported from Hungary and Poland and roleased to weet the demands of the country's im shooting .

In the first five years of the 1970s France imported 850,000 hares. The population in France averages four per 100 hectorss of hunting per 100 hectors of host to territory, but it is close to nine per 100 hertares -areas such as the Girond's Italy has also had to resort to pestocking and this year buyers even come to Britain locking for horse. "The initia-

Modeland mashire and Decompletington east was calculated at shire has brought in almost all 5555, and average sale price, the 760 course plants needed to \$2.5p a pound. In many cases, 50 causancies left by the costs were higher than returns. Included on the costs were higher than returns. nativentent sekamo. The heard said that in N. labour, and many losing con-Derlyshire in the past three corns were not yet at full

Civil engineers gloomy about future work

BY ANDREW TAYLOR

THE SLIGHT upturn in civil vices like roads and sewers survey on more carrier this Overseas work would suffer. More veer appears to have petered. The federation's survey of 214 mistic. according to the latest it Britain is now at its lowest charterly survey by the Federal the outlook for the coming

ing projects would lead to load in real terms deteriorated break-up of skilled teams of - 61 per cent of companies harns per sq km, ler. Jim englacers and operatives." Sounderd, the society's This round leave the ind political secretary told the unable to maintain basic ser- against 56 per cent in the last

...The federation's survey of 214 companies, in July, showed that fewer civil engineers reported per cent of companies said that orders had increased compared

___ said that order volumes either This rould leave the industry declined or remained the same,

mistic about prospects for the next 12 months, with only 15 per cent expecting new orders, repair and maintenance work to increase in the period.

Main indicators for the industry, orders and employ-ment, had weakened since the slight upturn in work indicated in the April survey. This improvement was due to the catch-up of work after the harsh

expected employment to rise in the next 12 months, compared

Curb door dumping' Loss-making air routes

BY OUR INDUSTRIAL STAFF

THE WOODWORKING Industry, which has a turnover of more than £100m a year, is the EEC Commission to curb the dumping of wooden doors in the UK.

Dony imports in the first five months of the year to alled (3.4.237, close to the ligare for the whole of 1978 (675.401), which was already

Mr. Tom Dawson, chairman of the British Woodworking Federation's executive contiports was causing unemploy-ment in the industry and threatening some factories.
Two-thirds: of the imports

are from Talwan and Indonesia. Last year about 9m doors were sold in the UK, er which about 10 per cent

Fish farms run at loss

courage investigation there, management department, Poland sporting guns are initially covered about 400 climed to operate in only issues. This was narrowed to half the national shoot each 1460 or so engaged in table front rear and this has helped need production a Most others are serve the hare population . I chiefly concerned with restocking for angling.

-- Only 30 of the trout farms were considered of commercial true operations. EXECUTION Compaint in 1990 tonner a year, average pro-

allowance for unpaid family

the has not been encouraged. MANY FISH FARMS are European countries. Rainbow Mr. Stuttoni said. Trunking at a loss, according to trout production in Great the Largest shooting has a Reading University study. Filtein was 2,500 tonnes in been bouned temporarily to writes Richard Mooney. 1976; against 15,000 each in allow the population to recover. The sam followed a agricultural economics and 17,000 in Italy. British production in the production there is a great a great department. duction has since risen to about trout production in Great Britain was 2,500 tonnes in 1976; against 15,000 each in duction has since risen to about 4.000 tonnes.

Royal Doulton jobs cut move

THE. STOKE-ON-TRENT-based Royal Doulton china and tableware company may have to reduce its workforce by about 3 per cent in the next few months because of an expected fall in

Earlier this year, the Price Commission revealed that labour costs accounted for an average two-thirds of direct manufactur-Derivative in the mast unity production.

The mast unity production.

The mast unity production two-thirds of direct manufacturing or trade said man unity man fines had been experienced.

British factories with other factories.

Government on the airline.

with 23 per cent in April.

out a major review of lossmaking routes and aircraft and seems likely to prune those services which consistently make losses.

may be cut

The review was announced to staff by Mr. Roy Watts, the airline's chief executive, in the latest issue of the company's newspaper. Mr. Watts said that he had "instituted a study of our route structure to ensure that to the maximum extent, resources now ... used on any routes which are chronically unprofitable and non-strategic will be more profitably used to operate routes that give a good conomic return."

The routes most at risk from the review are thought to be those between regional airports such as Cardiff and Southampton which are operated mainly by Viscount aircraft. British Airways may consider phasing out these aircraft, which are based on 30-year-old designs scrapping the routes.
But the sbuttle services

between London and major

regional cities such Edinburgh, Glasgow and Belfast are believed to be profitable British Airways stressed yesterday that the review was still in its preliminary stages and that no decisions had yet been taken. The Department of Trade said that there had

July trade figures out today

By Peter Riddell

INDICATION of monthly scale of the UK's current account deficit so far this year should be provided by the July trade figures, due this afternoon.

These will include adjustments for the impact of the civil service disputes which have disrupted the flow of information from some airports.

This should not mean a large undiscovered deficit, since the Department of Trade has already estimated that the published figures so far have prob-ably understated the level of imports by £900m.

Consequently the deficit between January and June was probably roughly £900m rather than £1.02bn as recorded to

This afternoon's announcement will attempt to adjust the figures back to January on a month by month basis for these distortions so there is no carry-over of un imports beyond July. understated

The Department is likely to stress that while the figures will allow for distortions arising from the disruption to the information flow, the month-to-month outcome will still be distorted by sharp fluctuations in the flow of goods through ports in the first half of this year caused by the road haulage

Government may have to boost money supply, brokers say BY PETER RIDDELL, ECONOMICS CORRESPONDENT

en those in the London

THE GOVERNMENT may an earlier stage in the coming recession than in 1974-75, and need to act in the coming year to ensure that the rate of growth of the money supply is not inadequately low. W. Greenwell, the stockbrokers, as a result the fall in the equity market will be much smaller this time than before, and the recession less severe. consider that likely to be necessary to prevent the finan-The analysis assumes that, if action is not taken, the financial deficit of industrial cial squeeze on industry and the recession from being as severe as that in 1974-75. and commercial companies

(excluding North Sea oil) might almost equal the worst of 1974-75 in real terms, or The firm's monetary bulletin, published this merning, about 41 per cent of Gross: argues that, when the coming Demestic Product. recession starts feeding on itself, monetary growth will However given that become inadequate. The exproperty companies hore the brunt in 1974-75, the outlook offset by a rapid reduction in facing non-property companies interest rates and by a rationmight be even worse than their experience in 1974-75. ing of official sales of giltedged stock. The projections are based

A possible external alternative if sterling is strong would be for the Bank of England to intervene selectively in the foreign exchange markets to increase domestic monetary.

The brokers assume that easing fiscal policy by adding to public expenditure and enlarging the Budget deficit is against Government policy.

Had the Bank acted earlier to prevent inadequate monetary growth in 1974 the last six months of the fall in the 30-share index from 250 to 146. would have been avoided.

Greenwell believes that the

Tax and Price Index fails to end arguments

BY OUR ECONOMICS CORRESPONDENT.

unveiled on Friday has not also pointed out that while the resolved the flerce debate about VAT increase was effective from whether the Budget tax changes have made the average family

better or worse off.
Mr. Nigel Lawson, Financial
Secretary to the Treasury,
claimed on Friday that the new index showed that tax cuts in the Budget wholly offset the combined effect of the increase in Value-Added Tax and the underlying rate of inflation between June and July.

by the Government-backed National Consumer Council and other bodies. The council has broadly welcomed the index as a useful indicator of spending power but has argued that the

THE TAX and Price Index impact of the Budget. It has mid-June the full benefit of the income tax cuts does not come through until October.

Mr. John Kay, research director of the independent Institute for Fiscal Studies, has also questioned the presentation of the new index.

He has noted that " the whole of the direct tax cuts effective from April are freated as it they became effective in July, This view has been disputed including even the increases in tax thresholds in Mr. Der Healey's Budget in April. Since all the changes affected tax liabilities from April but the full benefits will not reach people's pockets until October. figures produced contradict the this seems very difficult to Treasury's claims about the justify."

MECHANICAL ENGINE ERING

Report forecasts grim prospects

PROSPECTS for the mechanical

engineering industry have worsened considerably during the last four months, according to a forecast published today by the Engineering Employers' Federation. The report, which is the work

of a tripartife working party of similar structure to those at NEDO, forecasts a steep fall in home orders for engineering products during the latter half of this year and little prospect of improvement before 1981. Export orders are farecast to fall slightly for the rest of 1979. and remain at that level during

The factors responsible are:

Economic background—The main development since the last report was published in April has been the increase in oil prices and the restriction in

Although the UK economy is less affected by higher prices than most other industrialised countries, this has to be balanced against the very poor overall economic performance since the end of 1978.

The developing countries, which have a high potential for imported manufactured goods. will find their purchasing power restricted by higher oil prices: members of the Organisation of Petroleum Exporting Countries will mostly be unwilling to increase their imports of manufactured goods.

The Government's Budget stratezy, meanwhile, will be effective only in the medium to longer term. In the short term, the mechanical engin-cering industry is being bit by high interest rates and a strong

Orders - From the home market they rose substantially in the fourth quarter of 1978, but this largely reflected the developing Drax B power station project. With no growth, and even slight decline, forecast for the economy, plus high interest rates, investment prospects for 1980 are poor. The exceptions are likely to

1975 - 100

1974

be mining machinery, heavy plant, and to a lesser extent, printing: machinery machine tools. Although the business climate could wellbegin to pick up next year, the effects on the mechanical engineering industry will prob-ably not be felt until 1981.

Figures show that the industry has been unable to increase exports as a percentage sales over the past few years. In 1975, exports totalled 42 per cent of sales, in 1978 they were the same: imports, meanwhile, had climbed from 28 per cent of sales to 31 per cent.

The best export prospects are probably in the EEC. Sales to North America could decline towards the end of the year or early in 1980 as the effects of economic recession are added to lack of UK competitiveness against local competition.

The Middle East (particularly Iran) and North Africa, which have been largely responsible for the recent decline in export value, are not expected to change very much. But Iraq could be more promising. China cannot realistically be expected to become a major source of business for the UK industry in the near future.

 Costs and prices:—The increase in export prices against those of our competitors is due not only to the strength of sterling but also to the rela-tively high rate of inflation and the low relative rate of productivity growth. These two facts should have combined to allow for the depreciation of sterling but the increase in oil prices is keeping up the value of the pound.

ing trend in the industry's pro-ductivity has been downward since 1974. Between 1974 and 1978 output per employee appears to have fallen by about 4 per cent, reflecting a fall of Si per cent in the industry's output combined with a fall of only 4 per cent in employment.

1978

1977

Japan

1979

COMPARATIVE EXPORT PRICES IN DEUTSCHEMARKS

WADHAM STRINGER ROLLS-ROYCE

4 Dover Street, London, Tel. 01-499 8962

1976 Oct. Rolls-Royce Silver Shadow II Saloon. Silver Sand, Dark Brown teather. Speedometer reading 650 1978 Oct. Rolls-Royce Silver Shadow II-Saloon, Moorland-over Pewter, Ten leather. Speedometer reading

1978 Aug Rolls-Royce Silver Shadow II Saloon, Willow Gold. Dark Brown leather. Speedometer reading 12,000 miles.

1978 June Rolls-Rovee Silver Shadow II Saloon.
Caribbean Blue, Magnolia leather, Speedometer

reading 8,800 miles.

1977 Ant. Rolls-Royce Silver Shadow II Salcon.
Champagne. Dark Brown leather Speedometer reading 7,700 miles. 1976 Sept. Rells Boyce Silver Shadow Saloen. Walnut, Black Eversier roof, Tan leather. Speedometer reading £26,950

1976 Aug. Rolls-Boyes Silver Shadow Saloon. Seychelles Blue, Belge leather, Speedometer reading 36,500 miles. £26,000 1976 Feb. Rolls-Royce Silver Shadow Saloon. Pewter, Green leather, Speedometer reading 39,500 miles.

1976 Jan. Bolls-Royce Silver Shadow Saloon. Regency Breuze, Beige leather. Speedometer reading 1978 May Rolls-Royce Corniche Convertible Coupe. White, Derk Blue legther, Dark Blue hood. Speedo-meter reading 32,000 miles. 539,250 1975. Feb. Rolls-Reyce: Corniche Salcon. Moorland, Beige leather. Speedometer reading 4,800 miles.

1975 Feb. Rolls-Boyce Silver Shadow LWB Saloon 1975 Feb. Rolls-Boyce Street Samuel, without Division. Willow Gold roof, Brewster Green base, Beige leather Speedometer reading 46,000 miles. £25,590 1973 May Rolls-Royce Silver Shadow Saloon, Alpine Grey, Beige leather. Speedometer jeading 66,000 miles.

1973 May Rolls-Royce Silver Shadow Saloon, Sage Green, Green leather. Speedometer reading 48,000

GUILDFORD Yoodbridge Road, Guideord, Surrey, Tel. 69281. Tb., 659265

1978 June Rolls-Royce Cerniche II finished in Willow Gold with Beige hide interior and Brown Everdex roof 6,000 miles.

1978 Dec. Rolls-Royce Silver Shadew II finished in Chestnut with Beiga hide interior. 900 miles.

1978 Sept. Rolls-Royce Silver Shadow II finished in

Shell Grey with Red hide interior 3,000 miles.

1978 March Rolls Royce Silver Shadow II finished in Gardinel Red with Beige hide interior. 17,000 miles.

1978 Feb. Rolls Royce Silver Shadow II finished in Chestnut with Magnolia hide interior and Magnolia Everiex roof. 14,900 miles.

1978 Jan. Rolls-Royce Sliver Shadow II finished in Gunmetal Grey with Grey hide interior. 10,000 1977 Oct. Rolls-Royce Silver Shadow II finished in

Walnut with Tan hide upholstery, 22,000 miles, 1976 Feb. Rolls Royce Silver Shadow finished in Shell Grey with Surf Blue hide interior, 36,000 miles, 1975 Mar. Rolls Royce Silver Shadow finished in Peacock Blue with Beige hide upholstery, 30,000 miles. New Jaguars and Dalmiers now in stock.

Please telephone for full specifications.

TORQUAY Lieburne Square, Torquey, Tel. (0803) 24321 1975 July Corniche Convertible in Walnut with Beige

hide upholstery and Beige hood. A beautiful one-owner car. 30,000 miles. Offered at 1378 Jan. Corniche 2-door Saloon in Silver Challee 1978 Jau. Corniche 2-door Saloon in Silver Chalice with Black Everfiex roof and Deep Red hide upholstery. 23,000 miles only. £38,000 1977 May Silver Shadow in Honey with Brown Everfiex roof and Beige hide upholstery. Picnic tables. 13,300 miles. Superb. 1974 Aug. Flared Arch Silver Shadow in Seychelles Blue with Blue hide, 61,400 miles. A sound investment at 1973 Jan. Rolls-Royce Silver Shadow in Silver Mink over Seychelles Blue, Dark Blue leather, 44,000 miles.

1971 Mar. Rolls-Royce Silver Shadow with Mr. rcg. plate in Porcelain White, Brown Everflex roof, Tan upholstery, 51,000 miles.

DAIMLER SOVEREIGN 3.4 LWB

1976: Metallic aliver, blue learner, and matching Everlas roof. Automatic, PAS, chrome wheels, white wall eyes, radio/steren, 31,000 only. £4.650

£4,950 Terms available of Lease from £425 deposit, £142 monthly, inc. 12,000 miles Autopuerd warranty.

JAGUAR

X46-3.4 LWB

ELITE MOTOR SERVICES Ashby/Leic 0283 219183/219208

CITROEN in the City

comprehensive range of Citroen Cers including GSX 3 call

> 01-337 8911 Cooper Car Company 20 Paul Street



Abbey National OPEN Bondshares keep This net rate may vary but the 2% differential over share rate is guaranteed

out tying <u>you down ag</u>ain

Unlike most other high interest schemes, Abbey National Open Boadshares keep your savings on the high rate differential-after you have completed your contracted term-you can stay on that big bonus rate for as

longas you stay in the scheme. The actual rate may vary but the difference over our share rate is of course guaranteed.

It's very handy to get extra high interest without being tied down for another long period, especially as your investment is at only three months' notice once you have completed your contracted term.

That's the flexible advantage that Abbey National Open Bondshares offer.

With Open Bondshares, you come in at any level. If you feel you can commit your savings for longer than one year with Open Bondshares, Abbey's JUMP system lets you go straight on to the appropriate higher

interestrate. Committor 3 years for example and your savings start gaining a big 9.75% p.a. right away. Committor 5 years and you will earn the top rate of 10.75% p.a. from

the start. Of course, if you'd prefer only to commit your savings for one year at first, the STEP method still pays a handsome premium as you move up to the maximum rate.

You can have your interest as monthly income, or half-yearly, whichever suits you best....

If you are thinking about retirement, or the best way to profit from your capital, this option may suit you very well. Remember-you will have no further

basic rate tax obligation on the interest you receive. Aridofcourse, Open Bondshares

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असं year असं year 975 1025 975 iC.5 9:35 10.25 10.75 10.25 10.25 10.75 Interest rates based on a Share Account rate of 8,75% used the rate a guera west type 125% 2 jun 155% 3) aar 100% 4 %ar 150% 5: tar 200%

have all the security of Abbey National

Initial Contracted Term

year - 2 years - 3 years - 4 years - 5 years

%pa | %pa | %pa ! %pa ! %pa.

as a built-in extra. The minimum

9.25

investment is £500.

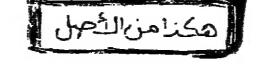
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Fill in the coupon now talkap BS. Harry Harrial Bulling Score, HatPOX, Balor Sept. London Haller

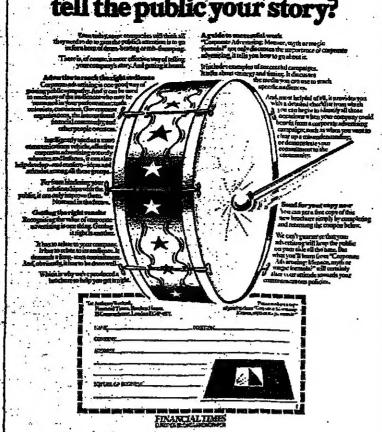
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ABBEY NATIONAL BUILDING SOCIETY, ARBEY HOUSE, BAKERSTREET, LONDON INVIGIL

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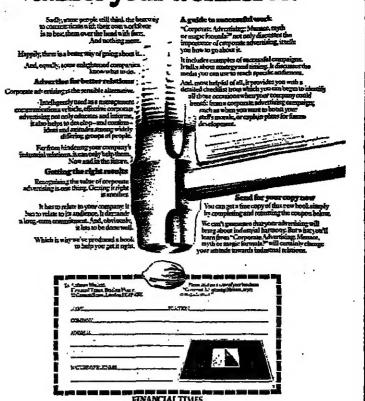




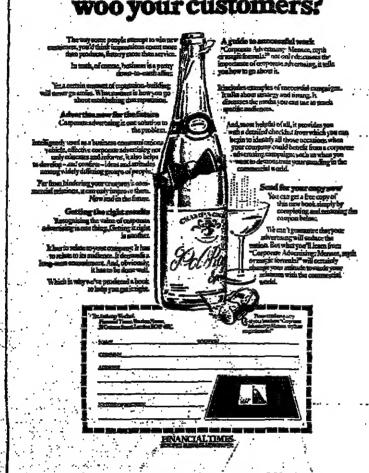




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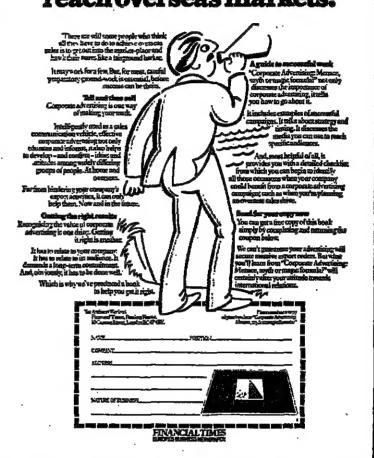
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Terminal News

EDITED BY ARTHUR BENNETT AND TED SCHOETERS

O SAFETY

Fast braking system

rapidly and consistently, comes from Tronic Electronic Services of Ulverston, Cumbria. Equally suitable for operator

protection or repetitive process control, this Dynabrake system is capable of emergency stop-ping a motor drive in less than 0.1 seconds. The braking period can be extended, if required, by the adjustment of a multi-turn patentiometer.

Dynabrake does not rely on conventional de injection mechanical methods to achieve braking. It operates, instead, on a pracisaly-timed phase selection principle developed at the University of Newcastle-upon-Type and is the first commercial exploitation of this development.

Self-excitation is induced at panal. one set of clater windings, while Tronic is at Lund Road, a low impedance path is intro- Ulverston, Cumbria, LA12 9BG. duced, by way of thyristors, Unversion 55859.

DYNAMIC hraking equipment across the other windings to pro-ture op most types of three-phase vide secondary stage braking. induction motors of up to 5 hp. With the aid of a variable electronic time delay, extremely fast: fail-safe braking is achieved. Because the new braking system utilises the kinetic energy stored in the motor and load, any interruption of supply

to the motor - due to mains

failure or the activation of saiely or control switches - will apply the same braking effect. Also, the peak braking current will be considerably less than the peak currents experienced during motor starting, thereby obviating the risk of motor damaze. Of compact design, with the

basic unit measuring only 215 mm by 215 mm by 150 mm (8) in by 8! in by 6 in approx.). the Dynabrake system may be mounted directly on mechinery and plant or built into a control

Protects the welder

HIGH LEVEL of protection, low are in worldwide use. weight; extreme comfort and Better ultra-violet protection wide visibility are charactered a redesigned welding shield weight; extreme comfort and teristics of a new Airstream go with low weight, good welding helmet announced by balance and high visibility when Razzl Safety.

research and Intensive version is a totally new Airstream with benefits of lung, tailored to -guard hazerds encountered in their debris. work. The new model joins the Further from Beresford hirstream family of anti-dust Avenue, Wembley, Middx. HAO helmets of which over 60,000 1RU.

A brilliant display

amber or red anti-glare filter colours.

Polarizing filters. Spectra-Tek, Outgang Lane,
A 5 V lower sumply drives the Pickering, Y018 7JA, 0751

logic, A further 12 V power 72941. "polarising filters,"

the welding shield is in use. The pivoted heat shield is 'development work into new supplemented by a tough polyprotection carbonate clear visor-giving demanded by many industries protection to BS2091 grade 1— has led to the AH2 MK2 and the mounted underneath. When the heat visor is binged up for inspection or grinding/fettling, eye, face and head protection the clear visor remains in posiwelders tion to protect the wearer arainst many of the potential against dust and grinding

Béresford

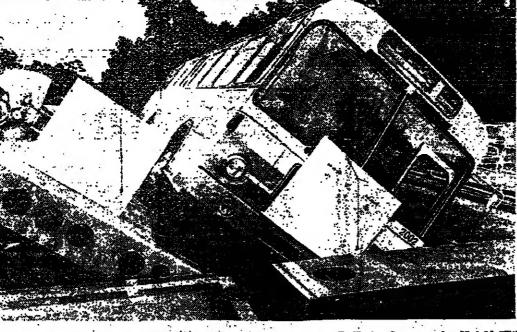
O COMPONENTS

- SEECTAATEN has a new rall and an on-board do to do phologod (2000 Series) display converter gives the 180 V gas photoged (2000 Series) display converter gives the 180 V gas which provides seven segment, discharge supply voltage.

5) now (2 in) high characters. Options available are a 31 distributed from the display read neon-control of cancer up to 30 motres.

The display is totally self-contained and ready to use. It is stocked in multiples of four display and is fitted with another or read anticipate distributed by varying converter gives the 180 V gas which is converted as seven segment, discharge supply voltage.

Options available are a 31 display on a 4 digit module; type display on a 4 digit module; colons and cerimal points are also available. The displays can be stocked in multiples of four digits in an integral bezel housing emphasis of particular digits can be made by varying digits can be made by varying



M.A.N. 159-passenger Bendibus undergoing a 35-degree tilt test at the Military Vehtcle Engineering Establishment at Chobham, Surrey. Five of these articulated bases are to be operated this autumn in Sheffield by the South Yorkshire Passenger Transport

Executive. Built in Germany by M.A.N.-VW Truck and Bus, which has its UK headquarters at 361-365 Chiswick High Road, London W4 4HS (01-995 3131), the buses are each 17 metres long and powered by an 11.4 litre 6-cylinder underfloor diesel engine.

8 COMPUTING

Processing problems solved

FOLLOWING THE launch in January this year of the personal computer hire facility by Aughton Automation, interest from the process field has been mounting. Since Aughton's own background is in process instru-mentation hire and measurement and control system design and contracting, the company is able to combine these activities with microcomputing to offer complete pilot systems.

Typical applications include overcoming automation prob-lems on small systems requiring a mix of sequence and continuous control, the establish-

ment of experimental data system requirement. acquisition and analysis sys tems, and the provision of peripheral "number crunching" facilities for laboratory instru-

The computer hire service. first based on Commodore PET machines, has now been extended to include other microcomputers, including the ITT 2020/Apple, the Tandy TRS 80 and many powerful industrial microcomputers. Aughton also offers a sale and leasing facility as well as a consultancy microcomputer for any given

Software and hardware back-up for system design is being provided through an association

with Dr. Malcolm Taylor of the Liverpool University Computer Laboratory The Laboratory's Microprocessor Unit is supported by an ICL 1906S which holds cross assemblers and simulators for microprocessors including the 8030, 6800, 9900, Z80 and the 8086 for develop-

Aughton Automation, Woodward Road, Kirkby Industrial Estate, Kirkby, Liverpool L33 7UZ, 051 548 6080.

Fast magnetic stripe encoding

the world's leading manufacturer of credit and security cards to be encoded with the cards, has a new magnetic stripe card encoder; the MT-75.

The new unit may be used for small quantity encoding, verify-ing and modifying functions.

Normally, new data are entered into the MT-75's memory via a keyboard. The data being encoded appear on a visual dis-play unit for checking. Input errors can be corrected by backspacing to the appropriate point and changing the incorract information. An integral microprocessor

permits the programming of formats and constants into the memory, reducing operator in-

about 158,000 square feet (12,800

suspended mezzanine floors.

£900.000 for the fitting-out and

same message. For magnetic stripe encoding,

each card is inserted into a guide slot. The machine's transport then passes the card over the write head. After encoding, the card is passed over a read head for automatic verification. It is then passed into a card stacker for convenience when batch processing is taking place. The entire encoding and verifying operation takes less than one second. Any one of the three tracks on a card may be encoded and verified according to user's choice, with a single

In its "verify" mode the

EMI DATA, which claims to be put to variable data only. A MT-75 will check that a valid repeat" key allows successive encoding operation has been ards to be encoded with the performed. The "modify" mode allows data already encoded to be changed, a single insertion of the card is all that is required.

The MT-75 is a self-contained desk top unit. It is similar in size to the average office typewriter. It is fitted with a security key lock to prevent unauthorised use and each unit non-resettable incorporates counters so that the number of cards entered and tracks validly or invalidly encoded or modified can be audited. The MT-75 works from any 240V 50Hz

mains power supply.

EMI Data, Alma Road, Windsor, Berkshire, SL4 3HA. Wind-

· HANDLING

Hygienic weighing

with particular application in meat and fish processing, a new-stainless steel scale has been introduced by Richard Simon and Sons of Nottingham.

Model Series 3240 digital packing house scale is sultable for heavy washdown. The scale incorporates the latest developments including a dual housing system which protects the vital analogue signal from interference so guaranteeing accuracy, and an automatic test programme to show that each segment of each display element and the indicator lamps are functioning properly.

switches ensures a watertight 277721.

DESIGNED TO meet the needs seal by eliminating front panel of the food packing industry, switch openings through the housing. The display window openings are protected by a silicone rubber adhesive.

The single cantilevered guided beam load cell, which accepts off-centre loading, replaces flexures and parallel plates and eliminates the necessity for complicated multiple load cell systems: There are no levers, pivots or bearings to wear out or corrode and the load beam is completely pro-tected by neoprenelined bellows. Available in a range of capa-

cities from 25 to 500 lb and in a choice of weighing platform dimensions, it will convert to metric by means of a switch in

All electronics are fully pro-tected during cleaning. The Richard Simon and Sons, development of special magnetic Basford, Nottingham (0602)

Crawler-mounted crane

AN 18-tonne capacity Fuchs system can be adjusted to crawler-mounted strut jib crane gauge of either 2.2 or 2.75 with a hydraulically-adjustable metres. The narrow gauge is track gauge and which can be equipped with a 28.8 metre metres has been introduced.

The crane is manufactured by West Germany, and will be sold in the UK by Vanesco of Garth Road, Morden, Surrey (01-330

crane motions and its track tonnes at 3 metres.

transported on a low loader and equipped with a 28.8 metre when it is carrying out general boom-fly configuration to give a purpose light lifting duties. The maximum height of lift of 27 wide gauge is used when dealing with heavy lifts.

It is stated that with the tracks set at 2.2 metres and when equipped with a 7 metres. metres radius. With the tracks It has an air-cooled Deutz set at 2.75 metres and with an dissel engine which powers all identical boom, it will lift 16.4

WELDING

Designed for tough work

MANUAL metal-arc welding design has a controlled low level electrodes which deposit lew of residual elements to mitigate carbon 1 per cent Ni-Mo alloy hot, transverse and re-heat steel weld metal have low from cracking the weld metal has a pewder content, together with high notch toughness and creep rupture ductility. Low weld which gives reliable with metal hydrogen actuated toughness at sub-sero temperatures.

Slim coating diameter gives free access in tight corners during preparation, minimising the risk of slag traps. Thus larger diameter electrodes may be used for joint filling. This is designated OK 8018-C3.

OK 2CrMo B is also a basic coated, low hydrogen manual metal are welding electrode but which deposits nominally 0.04 per cent carbon-21 per cent chromium—1 per cent molyb-denum low alloy ferritic steel weld metal. The electrode coating is free of iron powder additions and deposits particularly clean weld metal, thus minimis-ing undesirable ultrasonic reflections. The electrode

which gives reliable notch metal hydrogen potential and a low fume emission rate are other characteristics. The first electrode is suitable

for welding the 1 per cent Ni low alloy steel plate, pipe, forgings and castings used for combined high yield strength and good low temperature toughness properties in the construction of cyrogenic plant to he operated at temperatures down to -40 degrees C.

Major applications for the second specification are in the chemical and petro-chemical industries due to high resistance to hydrogen attack and good corrosion resistance to sulphurbearing crude oil. ESAB,

ESAB, Beachings Way, Gillingham, Kent MES 6PU. Medway (9634) 34455....

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. MATERIALS Less likely to tear

TUFWRAP. A new tear resistant protective wrapping produced by Carrs Paper, i suitable for case liddings and linings, deck cargo and genera heavy-duty packaging. It is based on a special flat

lying plastic net that is non wicking and rot-proof laminated with a bitumen mois ture barrier and a Kraft outer ply. In the event of puncture damage at any point, it is vir tually impossible for the tear to spread.

Two superior grades have polythene outer coatings selected for their water shedding properties. One is a clear polythene, the other is black for ready identification of the coated with the c the coated surface and to create tracks set at 2.2 metres and when equipped with a 7 metres a highly effective barrier against main boom, the crane will lift a ultra-violet light, particularly maximum of 13.5 tonnes at 3 desirable in certain exporting .circumstances.

Developed in conjunction with the automotive industry, Tufwrap is supplied in sheets or rolls up to 1750 mm wide to minimise or eliminate the need for jointing and to reduce handling.

Carrs Paper, Shirley, Solibull, West Midlands B90 4LJ. 021-744 2215.

• COMMUNICATION Fibre optic

TWO TYPES of fibre optic cable designed by Fibronics of Israel for both computer and general industrial applications, are now being marketed in the UK through the Data Products Division of Cole Electronics, 105-107 Lansdowne Road, Croydon CRO 2BN.

One type is suitable for computer-to-computer application while the other is a heavy duty cable able to withstand pulling forces of 100 kg and especially intended for industrial environ-

Both types of cable are made from plastic-clad, fused silica fibre with an attenuation of less than 15 dB/km. They can be supplied with or without installed connectors in lengths up to 1 km or cut to order.

- Triffing and Givil Engineering

£14m awards to Laing

INDUSTRIAL Engineering and mains which will feed water Home Stores. Work is die to Construction Division of John from eight wells into a restart soon, with completion by Laing Construction, in a joint inforced concrete collection November 1980.

Venture with TROCON of reservoir of 44,000 gallons (200 - Covering a ground area of reservoir of 44,000 gallons (200 - Covering a ground area) Amman, has won a £7.5m water cubic metres of rock).

work has started on the project, which includes laying a 63 mile (110 km) water pipa-line over rocky desert terrain. the installation of power trans. The contract for a SavaCentre completion of the structural out a comprehensive transportamission cables and a number of two-storey car park and other shell to provide a new store for tion survey and area traffic
-ancillary buildings. Completion sits works at Freeth Street, Old- British Home Stores at the Kil. control plan for the capital. is expected by October 1930.

At home, in the Oldbury area of the West Midlands, a prestige hypermarket complex is to be-

Norwest Holst contracts

CONTRACTS WORTH about to retain 5m gallons of water £1.4m have just been awarded at a depth of 6 metres.
to Norwest Holst, including a "Gentral Lancashire" Develop-£2.5m job from the Strathciyde ment-Corporation has swarded

and laying 4.25 km of 1350 mm Another company, in the ing centre for IBM UK is to be ments of the city, particularly internal diameter sewer at an group, Nott Brodie, has a Taylor Woodrow. everage depth of 6.5 metres. £561,521 contract from J. Sainsthree river crossings with associated manholes.

single compartment service Head Wrightson Process Engireservoir in reinforced concrete neering and Simonacco.

Regional Council for the con- Robert McGregor and -Sons struction of the first phase of (Norwest Holst company) a the Garnock Valley sewer from 2550,000 contract; for the con-Hillend to Waterside. 2550,000 contract; for the con-struction of about 1 km of new Work includes constructing 7.3-metre-wide carriageway.

About a third of the sewer is bury for the completion, includ-in tunnel, the remainder in ing fitting out, of a new super-open trench. There are also market at Clifton Down Development, Bristol.

structural framework with block asbestos roofs, and associated internal walls. Foundations roadworks. The warehouses will will be of composite reinforced be divided into units, depending in situ concrete ground slabs.

For the Beild Housing Assoon lessees' requirements.

For £570,000 a children's resiciation, in conjunction with the dential hostel is to be built at Shettleston Housing Associa-Parrs Wood, East Didsbury, further two storeys above for thon, a two-part £1\{\partial m} iob con-Manchester for the Manchester plant and lift machinery. The sists of a two-storey Sheltered Gity Council. It will provide pre-construction phase is now sists of a two-storey Sheltered City Council. It will provide Housing block containing 35 three-storey pupil living accom-

Other jobs include work from

Also ewarded by this council Wessex Water Authority (new is a £605.700 project for the headworks building, surge construction of a rectangular tower, etc) and contracts from

be divided into units, depending

Henry Boot kept busy -VALUED IN excess of £1.6m. Glasgow-Edinburgh road) Henry

an award to Henry Boot Con- Boot is to undertake Phase II struction for the erection and of this industrial development completion of two single storey - fer £600,000. warehouse/industrial units in The second phase contract Nettingham for Electricity comprises two warehouse blocks Supply Nominees is the largest (floor area approximately of several jobs which add up to over £4.5m.

The units will have steel block and aulminium cladding.

Estate radiacent to the main tank room at third-floor level.

built for £7m by John Laing Construction.

Start made on London

MANAGEMENT contractor for the new central London market- the long-term transport require-Taylor Woodrow.

In addition to offices, provi- public transport. sion has to be made for a river wall complete with a landing stage. The company says its present appointment is for the pre-construction phase (planning and budgeting) for a sixstorey office block. Work will invoive provision of a 220-metre HOUSING work valued at £31m long river wall, calling for the reclamation of some 7,500 square metres of foreshore. The building, between the National Theatre and Kent House (London Weekend Television). will have a reinforced concrete and commercial building is frame with precast concrete being sustained: a number of

paneis. The office block, offering about 27,900 square metres of floor space, will include conference amenities, cafeteria, kit-chen, and plant rooms, car parking and loading bay. The struc-ture will have two sub-ground levels and to this will be added four storeys of offices and a £2m) and two for warden-further two storeys above for controlled old persons' flats at pre-construction phase is now

well under way. Mats and fourteen one- and two- modation, three-storey staff flats, storey Fair Rent blocks, contain- two-storey administration and flat, single-storey administration and serious and softley; consulting engineers are Ove Arup and politan Borough just started at many modation, a partners and quantity surveyors several similar contracts in politan basement boiler nom, and a serious flat the rest to th Headylson.

Surveying the traffic

supply contract in the Aqaba region of Southern Jordan.

Water Supply Corporation of Howard Humphries in association with Arabtech.

At home, in the Oldbury area work has started on the prouspended mezzanine floors.

rick and Partners of Basingstoke, Hants, who have been
commissioned by the country's Ministry of Planning to carry

is expected by October 1930. bury, has been awarded by bowis Comprehensive Develop. One of the first tasks by the The pipeline consists of 12 SavaCentre, the joint venture ment Area, Clydebank, near consultants will be to recommiles (19 km) of gathering between J. Sainsbury and British Glasgow. mend improvements to 15 key mend improvements to 15 key road junctions. This work will include traffic management, improved junction layouts and, ultimately, extending the existing small-scale area traffic control scheme to the whole of central Baghdad.

As the short-term traffic management schemes are being carried out, the larger study will commence simultaneously aim of the latter will be to determine the balance between private and

Housing for **Partington**

has taken Partington Construc-tion's order book to a point where the company can expect a significant increase on the £12m reported for the year to April 31.

Steady demand for industrial factory units are ready for handing over at the 20-acre Westpoint Industrial Estate the company is developing at Old-ham, Greater Manchester, where Partington is based .- ... Recent successful tenders include one for 159 dwellings

Oldham, together valued at better than 11.1m. A fim home improvement

chaster.

at Warrington New Town (over

Bovis busy in France and UK

by the SAE/Bovis partnership

include stores at Boulevard

Haussmann, Paris, Rosny II, an

eastern suburb of the French

capital and at La Part-Dieu

MARKS AND SPENCER has project will be the company's customs shed and construction a joint venture partner, SAE of a steel-trained assession clad contract, valued at about (Societe Auxiliaire D'Entre- warehouse building together FFT 40m, for the construction prises). Previous Marks and with offices and hard standing and utime out of a 10,000 metre warehouse at Aulnay-Sous-Bois, near Paris.

Scheduled for completion in

July 1980, the warehouse will

serve Marks and Spencer's

Paris storu. It will provide twolevel storage of merchandise, plus cold rooms, office accommodation and staff amenities. The main warehouse area will be served by twin lifts. A.E.S. International, are the

architectural and engineering consultants and the quantity surveyors are Widnall and

Working with Bovis on this

Monk wins £5m worth FOUR contracts to A. Monk and separated junction and seven

located at Northampton, Leeds and Selby. Over £46m worth of contracts have been secured by this group since March.... First of the new work is for Council and is a continuation Brook of the Nene Valley Way high- At L speed trunk road, two stages of which were previously con-structed by Monk in 1973 and 1976. Stage 3 is a £3.356.918 project, 2.3 km long, near to

the River Nene east of for alterations to public roads Northampton and the construction of oil and It will be of two-lane dual grit interceptors at the Whitconstruction with a grade moor shaft site.

European distribution centre cladding to Conder Midlands. over 140,000 square feet.

Rail depot

BRITISH Railways Board, Eastern Region, has awarded a film contract to Tilbury Construction for the construction of

the contract.

shopping centre in Lyon. Back in the UK and following its start of a new refuse ing lower floors include the pro-baling plant at Bradford. York-vision of two new staircases shire, Bovis Civil Engineering has been awarded a second major public works contract in

the city for a £2.8m extension to Chellow Heights water treatment plant. Contracting at Avonmouth is valued at £609.500 and includes

demolition of an existing

Co., totalling over £5m, are structures-two underpasses. two road bridges and three footbridges.

> At Leeds, for Sulzer Brothers by Sony.
> (UK), earthworks and associated drainage at Mill Shaw framed site will cost £300,000 plus. At Selby, National Coal Board has accepted a £534,000 tender

Distribution centre

for Crosby Doors of Farnham will cost £3m and will cover Project management of the incorporate the latest tech-contract will be carried out by niques of narrow aisle storage Client Construction Company.
Groundworks have been let to
Client Tompkins (Parsons)

and retrieval, order picking and loading, with fully computerised systems of stock location, route

Swaffham at Clacton bypass

£3,380,000 for road works from a steel frame, aluminium-clad Reed and Mallik.
servicing and maintenance shed
It covers the r

Crosby (member of the Montague L. Meyer Group) says that the new building will

DEPARTMENT of Transport has accepted a tender for nearly -

planning and order processing."

a steel frame, aluminum-riad servicing and maintenance shed at the EMU train depot at Clacton Station, Essex.

The structure will be approximately 104 by 20 metres and the works include the provision of rail tracks and platforms. An extensive paved car park area and roads, a gas bottle store, associated drainage, services and the Broads.

It covers the reconstruction started work on Contract 11 of the Thames, Flood Prevention for a major new GPO parcels for a major new GPO

complete.

Built by Bovis Construction 12 years ago the James Beattle department store in Dudley, West Midlands, is now to be given a new top floor under a contract worth about £650,000. Alterations to the store's exist-

and the reinstatement of storage areas.
The extension will have a steel frame with Durox pre-cast concrete slabs and a mansard roof and will provide an addi-tional 12,000 so ft. Architects for this contract are the Harry

£3m factory

THE WELSH Development A second contract is for Authority has awarded a £3m forthmapton Development Corcontract to Sir Robert McAlpine Northmapton Development Corporation for the building of 51 and Sons for the building of a the Northampton. Borough old persons dwellings at Ecton factory on the Kingsway Industrial Estate, Bridgend, for use

> The factory will have a steelframed structure, measuring 155 metres by 55 metres, and there will also be an adjacent facilities block measuring 51 metres by 48 metres.
>
> Work is now starting with completion programmed for late-summer 1980. Architects

are Holder and Mathias Partner-

Border wins

Northern Group operating mainly in the north west of England, Border Engineering

North West Water Authority.

£3½m work

Contractors has been awarded. contracts exceeding £3.25m.
These include the construction of the effluent treatment works and pumping station at Workington for Thames Board Mills, the laying of the industrial water supply to Thames Board Mills and the trunk main Frizington/Cleator Moor for the

is accepted a tender for nearly

3,380,000 for road works from

Reed and Mallik.

Christiani and Nielsen has A £600,000 contract for the

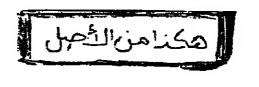
It covers the reconstruction started work on Contract II of supply of structural steelwork

Thames Flood Prevention for a major new GPO parcels

Thames Flood Prevention centre at Leeds has been won

Thames mead under

contract for the construction of contract for the construction of a five-storey office block in St. 1. Street, Leeds for French Bros, under a contract worth Paul's Street, Leeds for French



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£2m awards to C. Bryant

THREE PROJECTS, together worth £2m, have just been announced by C. Bryant and Son's building division. Largest job is the second

phase of a project at Heathrow International Trading Estate, worth more than £1m. Second contract, worth asserting is to build a two-storey teaching block and a steel contracts ball at Brownhills Second contract, worth about

framed sports hall at Brownings Comprehensive School on behalf is for British Leyland and in-Final work, worth £400,000, demolition of structural walls and erection of new steel industrial site at Erdington.

Sanda Sanda

State Park Brack

Washington &

. The state of

till Sandrau B

Ordani Str

Wast

Will build warehouses

SAM SPILIS MAC TWO CONTRACTS for ware have houses totalling £2.4m have been won by Fairclough. MEMBER OF the Lendon and metre development comprising three warehouses on the Griffin Industrial Estate at Totton, near Southampton. This is on behalf of the Midland Bank Pension Trust for whom JLW Project Services is acting as project co-ordinator. Value of the contract is £12m and the scheme has been designed by the Maurice Bagan.

Partnership.

The other contract, worth
£680,000, bas been placed be
£680,000, and Leeds Investments.





Donald Petersen, executive vice-

"FORD IS not in a state of shock because one more major competitor is making a run at world markets"— so says Donald Petersen, the Ford executime vice president with responsibility for international automotive operations. He shows mild amusement at the idea that Ford should in some way step up its own activities simply because General Motors, its major domestic rival, is currently putting much well-publicised emphasis on its overseas

Protocol forbids Ford's or General Motors' managers making public statements about the competition. But when pressed Mr. Petersen suggests there are some very good reasons for believing that GM will not be able to solve the problems it faces outside North America simply by throwing lots of money at them.

First you need people with a depth of international experience. U.S.-based managers are used to a stable environment because we have a stable Government and a three-year contract with the unions with the force of law behind it. Outside North America managers have to adapt to the unpredictability of markets yet sustain their

"You need a breed of skilled and sensitive managment to handle this kind of assignment." And any company building up . international operations also needs a healthy dealer network to take care of retail car sales, Mr. Petersen points out. The good dealers in most parts of the world are already committed to one particular manufacturer's car the next year. In:21913 products and will not be easily.

Ford sees its target for the 1980s as production of a 'rational' car

BY KENNETH GOODING

So it takes time for a group to build up its international And it can take even longer before the work put in begins to pay off in finan-Petersen maintains: "While this year's investments are making the news, the even

greater investments made over a much longer period of time are just now beginning to bear fruit for those companies which had the determination and foresight to invest carefully and steadily over the last decade and a half. These investments are not just in plants, but in sound, experienced management, strong and broad dealer networks and cars and trucks designed to serve the varied markets of the

"It is time-consuming, and the returns on investments do not come immediately. Only in the past few years have Ford's overseas operations really begun to return the investment we have committed to our overseas affiliates, many of which have celebrated the 40th, 50th or 60th and, in one case soon, 70th anniversaries of their formal

But then it has only been in fairly recent times that automotive market growth outside North America overtook that in the U.S. and Canada. Between 1963 and 1977 while the North American market was growing at around 2.5 per cent a year, the market outside was showing a 4 per cent improvement.

Ford in particular has been able to offset its recent problems in the volatile U.S. market by its overseas operations. The contribution of what are termed "international automotive operato total group profits before taxes rose from 7 per cent in 1971 to more than 50 per cent in 1978.

. It can be argued that the Model T was the first world car." In 1911, only eight years after the Ford group founded, it was being built in Manchester. England, and became England's best-selling assembly began in France and in 1916 the first Latin American

The third article in a series on the concept of a world car looks at the reaction of Ford to the strategy of its major U.S. competitor and the way it has already put plans in hand for a new phase in its world car programme.

car assembly plant was built in Argentina. Between then and 1925 new assembly plants were started in Denmark, Spain, Brazil, Uruguay, Italy, Belgium, Sweden, Chile and Japan. Through Ford of Canada, the

Model T penetrated the British Empire with assembly in Australia, New Zealand and South Africa. By 1924 Ford had built and sold 10m Model Ts. Today the Model T tradition is being followed by the Cortina (built in four countries and exported to 100), the Escort and the F-series trucks.

This is possible because Ford has long been established on the five continents and organises its production to reap the economies of scale this provides. Two years ago Sir Terry Beckett, chairman of Ford UK. gave an indication of just how these economies had become. He explained that Ford had compared the costs of producing a Cortina with those of producing a competitor close in built at a third of the Cortina's volume. The difference in cost, attributable to economies of scale only, was £170 per car.

Further stage

But in the 1980s Ford will take the "world car" concept a stage further, to what Mr. Petersen calls the "rational " rationai car." "There will be many reasons behind their varied levels of appeal and performance from country to country. They are likely to be vehicles with varying levels of common components and often great similarity of design. But still there will be enough locally appealing features to make hem desirable with customers in widely differing markets."

New vehicles being planned built not only multinationally but inter-regionally. "By encouraging specialised high- Although the



quality as well as economies of scale that will mean competitive prices for Ford vehicles."

Mr. Petersen insists that the rational car " holds advantages both for the companies and the countries that share in its manufacture.

For manufacturers it allows great savings by reducing complexity and costs and substantially raising the overall quality of the product round the world. It brings to countries with what we call 'orphaned' products the newest and best in automotive technology, replacing older designs which otherwise we could not afford to change."

In this context he points out that, although Ford has no assembly facilities in France, it has a major presence in the industry through its Bordeaux transmission plants.

Mr. Petersen maintains that there is a price to pay for this new way of operating and that may involve giving up luxury of self-sufficient domestic industries surviving behind artificial barriers of tariffs and local content regula-

Ford will have to spend about \$20bn between 1978 and 1985 learne, for around \$55m for the 1980s will have to be to produce cars and trucks which will meet the stringent will achieve two things. It will Government regulations. group volume' manufacture and prefer not to have to spend so Toyo Kogyo, the Mazda car promulgated and sourcing of parts and com- much so quickly, by doing so group, will supply Ford with generate some accomments among countries con- it will create a global pool of manual front-drive transaxles possibly some

tributing to a final Ford product technology and expertise that we hope to obtain superior will be shared by all Ford companies around the world.

The pressures have made it worthwhile for Ford to set up computer links between its design and engineering teams in the U.S. and Europe so that they can compare notes quickly. Ford's first "rational" car

will not be on the road until about 1984. Meanwhile it will go part of the way down the route with the Erica, due next year to replace the Escort in Europe and the Pinto and Bob-cat in the U.S. Erica will play a vital part in helping Ford meet the corporate fuel economy figures set by the U.S. Government but observers in the U.S. maintain it will not make one cent in profit

Mr. Petersen admits: "It is difficult to make money on small cars in the U.S. because it is an open market and the Japanese have set the going prices." But he insists the Erica will be profitable in Europe.

In spite of its long history of international activity, Ford has still to complete one important piece of tidying-up. It is in the process of buying 25 per cent of Toyo Kogyo, Japan's fourthargest car producer and number three in the commercial vehicle

Mr Petersen says the deal would ment between the companies• Sales in 1978 outside North America-\$13bn (\$11,2bn).

International Automotive Operations (IAO) net income in 1978-

• IAO's contribution to worldwide pre-tax profit rose from cent in 1971 to over 50 per cent in 1978.

· IAO accounts for more than one in every ● IAO accounted for more than one-third (\$8.3bn) of Ford's

IAO has 46 major manufacturing and assembly countries, with 80m square feet under cover. IAO employs more than 200,000 people, 45 per cent

Ford products are sold in about 200 countries and territories by

ber-as they develop.

capacity at Halewood in the

immediate future, among other

But Ford has, amid huze

publicity, decided not to go

ahead with a new plant in

Mr. Petersen says the ques-

The trouble is that when

that part of the exercise in a

"So when we finally decided

COMPANY NOTICES

"greenfield"

with

things.

for Erica and may also sell four- between Argentina and Brazil." Ford is also ready to adapt to cylinder diesels for use in the same vehicle. An equity link the requirements of the Andern

will also help oil the wheels when the two groups get down to developing components

Validity Then, although Ford is doing quite nicely in the Asia-Pacific area, it must be assumed that if "rational car" concept has any validity Japan will remain primary manufacturing base for the area. "The economical producers are based in Japan so in the long run we have to assume that the present restrictions in the Asia-Pacific countries will diminish and the fundamental economics will come into play," says Mr. Peter-

On its domestic doorstep, in Latin America, last year Ford had combined car and truck tion had always been whether Ford should first expand its leadership in Argentina and existing European plants then Venezuela and truck leadership follow in Mexico. It has decided to development or go for the "greenfield" site first and then pump another \$76m over the next two years into Argentina expand the current plants. to expand capacity and upgrade the products, a decision taken you are looking at the potential after General Motors decided it for greenfield sites in countries had had enough of manufacturing there and pulled out. where you are not doing business at the moment it

Both Brazil and Argentina have developed "internal" in- catches the public's eye. We did dustries with high local content requirements and Ford, operat. goldfish-bowl type atmosphere. ing in both countries, has had to adapt to that. But there is not to go for a greenfield potential for a good degree of operation we thought we had co-operation between the two better say so publicly and countries, Mr. Petersen main-quickly." high-cost and inefficient its industry has become because Ford co-operated with the government to show how a closed new regulations

Europe and that only after a European expansion ne has been drafted. scheme robably in September, will the Ford main board be asked to

Mr. Petersen insists that the decision was taken by Ford of

give a decision. He adds that Ford of Europe has done some recalculations in the light of what has happened in Iran. "We felt we had to put some weight on that factor in projecting future growth. We also re-examined financial cost

projections." tHis current projection is that world passenger car demand over the next ten years should rise by about 30 per cent and truck demand should

continue to be strong.) Mr. Petersen insists that " in Pact countries - of which Venezuela is a prominent memthe long haul" Ford will be spending more on its overseas operations than General Motors.

Europe remains the backbone of Ford's overseas operations Because Ford has had to find so much cash for the changes and an area in which substanin the U.S. it is rumoured that tial investments continue to be the group has banned all export made-\$300m on the Bridgend of capital from the States for engine plant in Wales due on the time being. Mr. Petersen stream soon; \$700m over the points out that in the past ten next five years on engineering years \$3bn was spent on the overseas operations-" all the and product development in Germany, and \$1.8bn in Britain cash was going in the other (including Bridgend) between direction 1978 and 1982 to increase

He expects competition outside North America to become progressively fiercer; not only because General Motors is now improve its market share but because all of the top eight automotive groups are elbowing each themselves more room. A whole range of joint ventures will enable those smaller groups of on the world battlefield.

"Because of the huge sums needed to stay competitive, we are becoming accustomed to dramatic alignments and joint ventures with local capital. Some of these alignments seem to prove that it has now become cheaper in many countries to buy plants than to build them," Mr. Petersen suggests.

"Ironically, it may be that during the next decade some companies will be getting bigger in order that their cars become

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Wilson proposals 'will not revitalise firms'

draw attention to some of istered in the private secti the problems of independent rather than by government. businesses "it falls a long way short of a comprehensive package capable of restoring the sector's viability."

This is the view of the Association of Independent Businesses, an organisation which represents about 25,000 firms and which claims to number among its ranks one-quarter of companies in the UK which have a turnover of over

The association's comments are contained in an assessment. example, the association reckons that in contrast to the Wilson view, a bias against smaller

WestLB

WHILE THE interim report argues that any fresh sources tax take is gothered," it says, published by the Wilson Com- of external capital for small Discussing the problem of bias mittee on financial institutions companies, or any loan guarantee schemes should be admin-The AIB strongly insists that

the Wilson Committee's terms of reference should have allowed it to appraise the effects of taxation on smaller com-panies. Indeed, it suggests that the new Government might even alter the committee's guidelines so that, before it produces its final report, it might make some recommendations in this area.

The omission by Wilson of any consideration of taxation effects was essentially due to the subject being considered published today, of the Wilson "political." The AIB, however. Committee interim report. Its maintains that there are a numcriticisms and recommendations ber of questions about tax which produce no real surprises. For are not at all political. "The size of the tax take is a political choice; quite separately there system. is an efficiency choice to be A mo a bias against smaller is an efficiency choice to be A more liberal lending policy does exist, and it also made about the way any given among the clearing banks

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in London has necessitated a move

istered in the private sector, clusion that such problems ex- somewhat further than it does perienced by that sector as at the moment. greater costs of loans, greater scarcity of external equity and minimum qualifying level in Government support schemes or export credit facilities do not necessarily constitute a bias. The AIB remarks: "We cannot agree; any structure which assists one part of industry and commerce more easily than another is by definition biased

against the latter." The financial bias must be acknowledged, but not by crorganising the well-tried financial structures which serve other purposes well. Instead, there should be a complementary bias elsewhere in the

the association. Provided the against small firms, the AIB first money at risk is always the cites the Wilson Committee con- proprietor's, a bank could go

The association wants a rather different form of financial in-termediary to channel equity into independent business than that suggested by Wilson. It cites the U.S. and outlines a three point system as being worthy of consideration.

This system which has for the most part already been widely discussed-would allow Small Firms Investment Companies to take in privately subscribed capital; to augment capital subscribed as risk-bearing equity with borrowings up to three times the equity subscription: and give the right to change any losses arising on the realisation of such investment against

Nicholas Leslie

GENERAL MOTORS **CORPORATION**

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A. CUEPDEN. Secretary. Hightown Pead, Cisthheaton, West Yorkshire, 20th August 1979,

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EXHIBITIONS

ABOUT THE NATIONAL TRUST

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By ANTHONY HARRIS

economics

THE Fastnet Race has been Yet the comment which has so interference of the wrong kind -banning small boats, interfering with the running of races; in short, as usual, seeking scapegoats and treating symptoms.

Philosophy

In fact a tragedy of this kind has been waiting to happen for some time. The reasons are partly technical—and so far as to the point of fragility. De-they are technical, they have signers as well as helmsmen run already been attacked by the risks. racing authorities, with results which should become apparent in future designs. However, the reasons are also partly related to the philosophy, one could almost say the economic philosophy of the sport, and that has not changed radically. For the good of the sport, perhaps it

should.
The elite of sail racing has always been and remains a sport for the very rich, since the days when Sir Thomas Lipton devoted some of the militions he had made in making retailing (and incidentally cutting the urban cost of living by about a third) on campaigning his magnificent J-class yachts. The sailors in those days were largely professional; the rich contributed the yachts.

Ocean racing has happily become an amateur sport so far as the crews are concerned; but money remains at the root of it. The races are sailed under hanto allow and to encourage innovation. Indeed, no serious contender can be designed these days without a computer analysis of the rules, to calculate the trade-offs between the handicaps applied to various features and dimensions, and the possible speed to be gained, and probably the consultancy of a hydraulic research station too.

This process is naturally very expensive: but racing under restricted rules has been "de-mocratised" by applying the same approach to progressively smaller boats. Within each class, however, it remains true Within each that money has a lot to do with who wins the race. It is virtually never won by an old boat.

BBC 1

† Indicates programme

6.40-7.55 am Open University (Ultra high frequency only), 9.50 Magic Roundabout, 9.55 Jack-anory, 10.10 Don and Pete, 10.15

News for England (except Lon-

11.90 am). 4.45 Jigsaw. 5.10 Big John, Little John. 5.35 The

. 5.40 News.

In two ways, this approach tragedy enough; but the public has courted danger. First the reaction to it would well prolong actual rules have encouraged the agony for all who love sail- the development of what are in It is likely to reinforce the effect oversized racing dinghles, drift towards official interfer-which skim over the water ence in what is the freest of rather than cleaving through it. recreations and the most com- Such boats encourage the runplete escape from City pressures ning of risks; for whereas tradi-that many of us can imagine. tional craft actually go slower if they are carrying excessive sail, far appeared seems to suggest as they wallow through the water, skimmers can be driven

This fact should involve discomfort rather than risk to life all. in sound design. but competitive innovation has a further effect: the fine speed margins required depend on cutting weight and underwater drag to a bare mini-mum. slimming down keels. steering assemblies and rigging

This seems to me still to attack the symptom rather than the cause. It is surely regret-table that sailing is made into such a money spart by its rules, and effectively reserves the prizes for those who can afford a new craft to a new design each season. There is a clear afternative: the Olympic approach, seen equally in all dinghy classes, in which the major awards are won in classes of craft as near as possible identical, and are won solely by care in preparation and skill at the helm.

More sporting

Equally important. taking at the design stage is effectively ruled out. If a class is to be built in hundreds, nothing must be fragile; the need for modifications and their cost would discredit the class. There is no good reason why dicamping rules of the greatest such classes should not reflect complexity, which are intended modern thinking on fast sailing as it develops; the risks involved can be limited.

What is really lacking, how ever, is prestige. Here both the sailing authorities and those who spend such fortunes on their own competitive efforts could help. Sponsorship of a top class for one-designs would soon establish its prestige if it could attract the support of those who have a vested interest in the present more exclusive approach, and perhaps a frac-tion of the money they spend. All-comers' races would then remain simply what they once were-3 bit of fun. In this way, not only would lives be saved, but the sport of kings would be

5.55 Nationwide (London and South East only).

6.50 Ask the Family. 7.15 Explorers of the Deep. Points West (Bristoi); South 8.05 "Grand Prix," starring Today (Southempton); Spotlight James Garner (part 1). South West (Plymouth). 9.00 News.

9.25 "Grand Prix" (cont.) .15 World 12.05 am Regional News. All Regions as BBC-1 except at

the following times:—
Scotland—5.55-6.20 pm Reporting Scotland. 12.05 am News and Weather for Scotland.

Desert Adventure. 10.35 Take Hart. 11.25 Cricket: Third Test Wales-1.39-1.45 pm Pili Pala. —England v Indiz. 1.30 pm Trumpton. 1.45 News. 2.05 Cricket: Third Test. 4.18 Regional 5.55 Wales Today. 6.15-6.20 Newy-dion. 6.50-7.15 Tomorrow's World. 12.65 am News and Weather for Wales. don), 4.20 Play School (As BBC-2

Northern Ireland-4.18-4.20 pm Northern Ireland News, 5.55-6.20 Scene Around Six. 12.05 am News for Northern Ireland.

F.T. CROSSWORD PUZZLE No. 4.052

ACROSS I It's the bird to talk lightly 2 The right celebrity comes about us (6)

10 A saint to beat in Wales (8) 12 A small-time criminal in 7 Struck a distinguished com-

infancy (8)
13 Search about, but they are not all marble (6) 15 Port trasaction (4)

Sarah under examination (7)

16 Submit a sound reason for the doctor's visit (4, 2, 4)

19 Diarist's Supportion 11 Wartime cocktail (7)

14 Money coming in the cock 11 (7) 19 Diarist's suggestion retirement (3, 2, 2, 3)

20 Chooses a different post (4) 23 There is little money for a good man with a place in Bucks (6)

18 Troubled spots for Edward (8)
19 Team magazine (7)

27 It is unavailing to turn a shooter on a politican (S)

29 Proves unreliable like a dress 26 Upward attraction (4) with a hem (4, 4) 30 Cuts off the prophets about

DOWN 1 "But now I am cabined, -,

confined " (Macbeth) (7) before the council (9) 4 The fellow gets an order for 3 A broken girth and no bacon (4, 4) mistake (6)

9 A foreign type-not upright 5 An animal brings Eugene to book (4) 6 "— to a satyr " (Hamlet) (8)

panion and caused a hold-up 8 South American country has

a meeting-place (7). 17 Once thoughtful and costly

25 Don Quixote's lady-love may 21 Authoress takes in a sort of include a variation (8) square for those who have

endurance (7) 22 The voice of the doers (6) 28 Here is a theologian to 24 Unwrought gold must be hazard a guess (6)

> The solution of last Saturday's prize puzzle will be published with names of winners next

Lessons from the Rossminster case

Appeal by a judgment which gratified not only those who like to see the tax man defeated tion to helping with the investibut also those with a wider gation of suspected tax offences, concern for the protection of the raid on the Rossminster prethe citizen against abuse of bureaucratic power.

Yet one cannot escape the impression that the effect of the judgment will not really achieve the admirable objectives which the three appeal judges so clearly expressed. Moreover, the third and final act of the drama will only take place in the House of Lords and it is by no means certain that the judgment of the Court of Appeal will be then con-firmed in its full extent, or at

Excessive taxation encourages both legal tax avoidance and illegal tax evasion. At the same time, the particulary clumsy and complicated way in which tax laws are drafted provides innumerable loopholes for legal tax avoidance.

Tax payers with very high incomes feel obliged, not only by absolutely necessary. Her suspicio Majesty's Inspectors of Taxes offence.

the law which help tax avoid-

One can assume that in addimises could also yield information about the clever legal schemes that are being used by such successful practitioners. Without knowing about them the Inland Revenue can hardly propose legislative changes which would stop them.

The Revenue officers who

carried out the raid in the early

hours of July 13 were no Gestapo-type guerrillas but, as Mr. Plummer, one of the victims, testified "very nice chaps." One can hardly assume that the two Commissioners of Inland Revenue who authorised the operation could be described in any other terms. Yet circumstances seem to have prompted them to a "military-type" opera-tion which ended in removing, a la rinjusa, lorry loads of ducuments, some of which could possibly be used as evidence, if indeed there was any offence committed, and some of which had no relation to tax matters self-interest but often by a sense at all. And they have done so of duty to their shareholders on the basis of warrants and employees to use every pos-sible loophole of the law to avoid paying more tax than is Her suspicion of an unspecified tax

law which enables the Inland

Revenue to obtain from a indicial authority a search warrant if it can satisfy the judge that it has information justifying the suspicion of a tax offencė.

Mr. Justice Walton, to whom Ressminster appealed in the first If

of Rights.

the transcript of the judgment (which is not yet available) it tice Goff when he underlined may take weeks to establish diswill remain unclear how detailed that the Rossminster decision of crepancies between such a definition of the offence is the Court of Appeal does not records. quired by the Court of Appeal. imply that the search is invali-what is required is, to use dated whenever the officers take required by the Court of Appeal.

THE WEEK IN THE COURTS

By A. H. HERMANN, Legal Correspondent

warrant need not say any more than just that. The three judges of the Appeal Court took a different view and, relying on previous judgments of the House of Lords and of the Court of Appeal, reaffirmed that it is a basic tenet of the English law that whenever a statute speaks so vaguely about "an offence" it should be read as implying the condition that when the statutory provisions are applied, the offence must be sufficiently specified to allow for judicial review.

Such a general implication, which is not much different from the generally accepted requirement that all decisions of administrative authorities must show reasons which moved those who made them, is of in Ghani z Jones that a police

instance, took the view that the Lord Simon's dictum of 1947, "specification of particulars of the offence," the decision may go a long way in protecting the citizen against fishing expeditions by the authority. If however, the appeal judges would be satisfied with the naming of one or several of the six categories of tax offences this would hardly help. Though these six cate-gories include the specific offences of false accounting, forgery and perjury, they also include the very broad categories of evading tax liability

> It seems to be also well established by previous decisions of problem springs from the in-the Court of Appeal, particularly creasing complexity of business

minster drama* was concluded only to stop illegal tax evasion the judgment rested on the equivalent to a constitutional under common law for suspicion search to determine on the spot last week in the Court of but also to blug any holes in interpretation of the statute rule of countries which have of an arrestable offence can also whether it is "reasonable to the law whether it i written constitutions and Bills seize objects which he thinks believe "that a certain piece of Rights.

could serve as evidence for of paper will be needed as eviHowever, until one has seen another offence. This may have dence of a suspected offence.

more than is strictly justified by the suspected offence specified in the search warrant.

It all depended, he said, on the way it was done. A particularly oppressive performance of the search shifted the burden of proof that the seizure was really necessary on to the authority, in this case the Inland Revenue. As the Inland Revenue refused to offer such evidence in the Court of Appeal, the appeal judges felt there was no choice for them but to quash the warrant and to order the return of the documents.

The oppressive effect of the excessive real with which the search of the Rossminster. premises was carried out is therefore the second less on which the decision of the Court of Appeal rests, the first being and corspiring to defraud and that the warrant was had as it cheat. The last offence is broad did not specify any offence. But can a ruling of even the highest court of the land achieve a remedy where the enough to support any fishing

ENTERTAINMENT GUIDE

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- making it often impossible 16, 1979, unreported.

been on the mind of Lord Jus- Even experienced accountants

One can hope that the House of Lords, to whom Inland Revenue will appeal, will clarify some of these issues. But 7 real remedy can come only from changing the method of tex legislation and of tax enforcement. Legislation should bring out more clearly the substantive intention of Parliament and shed the complicated crossreferences which aim at preci-

sion but achieve obscurity. Enforcement, it should be realised, is mainly conterned with a relatively small number of very large taxpayers. And here prevention might be better than cure: a system of regular audits and consultations in which Tax Inspectors were represented would not only take a better account of the rule that people should be con-sidered innocent as long as they are not proved guilty, but might - as German experience shows. - achieve also significant results for the Inland Revenue. Court of Appeal, London. Rossminster Group and others p. Commissioners of Inland Revenue, judgment of August

Troy set for massive gamble over 10½ furlongs at York

THERE IS little doubt in my mind that the connections of Troy are taking one of the most massive gambles seen in racing history in saddling the dual Derby winner over 101 furlongs at York tomorrow.

A colt who takes a long while to get into full momentum and

RACING

BY DOMINIC WIGAN

one who was not only helped by a slightly ill-judged late bid by Gay Mecene's pilot at Ascot, where a stumble also did not help the cross-Channel raider, Troy will undoubtedly need a fast early pace tomorrow if he

Brian Proctor, second stable jockey and the subject of un-fair criticism over his riding in the King George VI and Queen

England-5.55-6.20 pm Look

East (Norwich); Look North (Leeds, Manchester, Newcastle);

Midlands Today (Birmingham);

Points West (Bristoi); South

BBC 2

11.00 Play School.
4.30 pm Cricket: Third Test.
6.30 Open University.

ing sub-titles.

8.90 Ten on Two. 8.10 The Waltons,

Tacks.

lights). 11.35 Late News. 11.50 Closedown reading.

6.40-7.55 am Open University.

6.55 Pick of the Philpott File.

7.50 Mid-Evening News includ-

9.00 Larry Gatlin Sings

Country.
9.25 The Jacob Bronowski

Memorial Lecture.

10.15 Best of Brass. 10.50 Return Call to Brass

11.05 Cricket: Third Test (high-

LONDON IBA programmes are subject to

interruption because of industrial

action

9.30 am Beyond the Moon?

10.00 am The Regions Report. 10.30 Cartoon Time. 10.45 To the Wild Country. 11.35 The White Stone. 12.00 Jamie and the Magic Torch. 12.10 pm Rainbow. 12.30 Emmerdale Farm. 1.00 News, plus FT Index. 1.20 Thames News. 1.30 All About Toddlers. 2.00 Rumpole of the

Bailey. 3.00 Monday Matinee: "Killer Bees." 4.20 Clapperboard. 4.45 Why Can't I Go Home? 5.15

7.00 Britain's Strongest Man.

10.30 Best Scilers (continued). 11.15 Thriller.

RADIO 1 5.00 am As Radio 2. 6.00 Andy Peebles. 9.00 Simon Bates. 11.00

Radio 1 Roadshow. 12.30 pm Newsbeat. 12.45 Paul Burnett. 2.00 Tony Blackburn. 4.31 Kid Jensen. 7.00 Stayin Alive. 8.00

Mike Read. 9.50 Newsbeat. 10.00 John Peel (S). 12.00-5.00 am As

RADIO 2.

RADIO 2

5.00 a.m. News Summary. 5.03
Derok Hobson (s). 7.32 Terry Wogan
(s). 10.03 Jimmy Young (s).
12.15 p.m. Wagoners' Walk. 12.30
Pete Murray's Open House (s). 2.15
David Hemilton (s). 4.16 Much More
Music (s). 5.00 News. 5.05 Wagconers' Welk. 5.20 Don Durbridge (s).
6.45 Sports Desk. 7.02 Music from
the Movies (s). 7.30 Sports Desk.
7.33 Alan Dell with The Dance Band
Days, and at 8.02 The Big Band Sound
(s). 9.02 Humphrey Lyttelton with
The Best of Jazz on records (s). 9.56
Sports Desk. 10,02 Funny You Should
Ask. 10.30 Star Sound. 11.02 Brian
Matthew with Round Midnight from
Edinburgh, including 12.00 News. 2.025.00 a.m. You and the Night and the
Music (s).

RADIO 3

Radio 2.

7.30 Coronation Street.

8.30 World In Action.

9.00 Best Sellers: Lonigan." 10.00 News.

Spooner's Patch.

Survival. 5.45 News. 6.00 Thames News. 6.05 Thames Report.

6.35 Crossroads.

Elizabeth Diamond Stakes in which Road to Glory was simply not up to setting the required pace, again bids to fulfil that role on the Sir Gaylord fouryear-old. With Lyphard's Wish, among

others, almost sure to take them along at a blistering pace from the outset. I see little need for Road To Glory's presence, who seems ill-equipped for the role. Those likely to take on Troy in the £50,000 renewal of the Benson and Hedges race include Gay Mecene, Swiss Maid,

Gain, Noelino and Manguin. The reasoning behind Troy's presence looks obvious. Although some reports suggest that breeders have been eager to snap up shares at £180,000 each (valuing Troy at £7.2m). a victory would undoubtedly encourage those still uncommitted to back the stallion prospect and hopefully ensure his presence at stud in Britain

rather than in the U.S.

tradition.

12.30 am Close: Gai Eaton with

All IBA Regions as London

ANGLIA
10.30 am Andy's Party. 10.55 The
Exeter Maritims Museum. 11.20 The
Peper Lads. 11.45 Occar and the Great
Windows 1.25 am Anglia Name 2.25

Wasieros. 1.25 pm Anglia News. 2.00 Houseparty. 2.25 The Love Seat. 3.20 Houseparty. 2.25 The Love Seat. 3.20 Angula 11.15 Dectors in 8.00 About Anglia. 11.15 Dectors Private Lives. 12.15 am Refléction.

ATV

10.30 am Dick Tracy. 10.35 Sesams Street. 11.25 Ghost Suaters. 1.20 pm ATV Nawadeak. 3.00 Movie Matines: "Terror On A Train." 5.00 ATV Today. 11.50 Happy Birthday Besie. 11.50 Something Different.

BORDER

FUNDER

10.30 am Andy's Party. 10.55 The Exeter Maritime Musaum. 11.20 The Paper Lads. 11.50 Oacar and the Great Wootsroo. 1.20 pm Border News. 2.00 Houseparty. 2.25 Fireside Theatre. 3.20 Rumpole of the Bailey. 5.15 Cabbages and Kings. 6.00 Locksround Monday. 6.20 The Sound of The New Seskers. 11.15 The Do-Gooders. 12.00 Barrey Miller. 12.30 am Border News Summary.

CHANNEL.

1.20 pm Chennel Lunchtime News and What's On Where. 3.00 Tale Monday Matines: "Top of the Form." 5.15 Cabbages and Kings. 6.00 Channel News. 10.28 Channel Late News. 11.15 Family. 12.10 am News and Weather in French.

GRAMPIAN

S.30 am First Thing, 18.55 The Exeter Meritime Museum. 11.20 The Paper Lads. 11.50 Oscar and the Great Wooferco. 1.20 pm Grampian News Headlines. 3.00 Monday Matinae: "Let's Switch." 5.15 Out of Town. 6.00 Grampian Today, 6.05 Figir. 11.15 Reflections. 11.20 Survival Special. 12.20 am Grampian Late Night Headlines.

GRANADA

HTV

111V
10.30 am Andy's Party. 10.55 The Exeter Maritime Museum. 11.20 The Paper Lads. 11.45 Oscar and the Great Wooferoo. 1.20 pm Report Wast Headlines. 1.25 Report Wales Headlines. 3.00 Monday Matines: "Nicky's World." 5.15 Little Red Riding Rabbit. 5.20 Crossrods. 6.00 Report Wast. 6.22 Report Wales. 11.15 Michel Legrands and Friends.

RADIO 4

except at the following times:-

readings from the Islamic

those still sitting on the fence that Troy has the speed to take on and beat the best over tomorrow's trip, I feel sure the race would not have been on Trop's itinerary. Apart from that it is bardly

But for the fact that con-

nections clearly want to impress

an ideal ingredient in an Arc de Triomphe build-up, the Benson and Hedges race is one that Hern would, in normal circumstances, have avoided with a colt who needs at least one and a half miles to be seen at his hest.

It was in the initial running of this race in 1972 that Hern's Brigadier Gerard met his one defeat in 18 races. Since then such odds-on chances as Rheingold, Grundy and Trepan have come unstuck.

LEICESTER 4.50—Cavalry Cut 5.20—Karlinsky*** 5.45—Lombardia**

6.35—Jester's Boy*

HTV Cymru/Wales—As HTV General Servics except: 1.20-1.25 pm Penswdeu Newvddion Y Dvdd. 6.00-6.22 Y Dydd. HTV West—As HTV General Service except: 1.20-1.30 pm Report Wast Head-lines. 6.22-7.00 Report West. SCOTTISH 10.30 am Andy's Party. 10.85 Exerer Maritime Museum. 11.20 The Paper Lads. 11.45 Occar. 1.25 pm News. 2.00 Monday Matines; "Blood Sport." 2.00 Monday Matines: "Blood Sport."
5.15 Popeye. 5.20 Crossroads. 6.00
Scotland Today—Summer Extra, 6.30
Crimedesk. 6.45 The Sounds of . . .
Rickis Lee. 11.15 Lats Call. 11.30
Festival Cineme.

SOUTHERN

10.30 am Andy's Party. 10.55 The Exeter Maritime Museum. 11.20 The Paper Lads. 11.45 Occar and the Great Wooferon. 1.20 pm Southern News. 2.00 Houseparty. 2.25 The Love Boat. 3.20 Rumpole of the Beiley. 5.15 Dick Tracy Cartoon. 5.20 Crossroads. 6.00 Day By Day including Southsport. 11.15. Southern News Extre. 11.25 The Entertainers (Tony Monopoly). 11.55 Farm Progress.

TYNE TEES 9.25 am The Good Word followed by North-East News Headlines. 10.30 Andy's Party. 10.55 The Exeter Meritime Museum. 11.20 The Paper Lade. 11.45 Oscar and the Great Woofsroo. 1.20 pm North-East News and Looksround. 3.90 Monday Matines—"Mrs. Sundance." 5.15 The Best Disco In Town. 6.00 Northern Life. 11.15 Jazz Night—"Count Basis." 11.45 Greatest Fights. 12.00 Police Surgeon. 12.35 am Epilogue.

ULSTER 10.30 am Andy's Party, 10.55 Exster Maritime Museum. 11.20 The Paper Lads. 11.46 Oscer. 1,20 pm Lunchtime. 3.00 Mondey Matines: "Terror on a Train," starring Glenn Ford. 4.18 Ulster News Headlines. 5.15 Carcon Time. 5.20 Crossroeds. 6.00 Ulster Television News. 6.15 Family Matters. 6.30 The Mary Tyler Moore Show. 11.15 Colgate World Mixed Golf Championships. 12.15 am Bedtime.

WESTWARD WESTWARD

10.30 am Andy's Party. 10.55 The
Exeter Maritime Museum. 11:20 The
Paper Lads. 11.45 Oscar and the Great
Wooteroo. 12.27 pm Gus Honeybun's
Birthdays 1.30 Westward News Headlines. 13.00 The Mondey Matines: "Top
Of The Form." sterring Ronald Shiner.
5.15 Cahhages and Kings. 6.00 Westward Diary and Sports Desk. 10.28
Westward Lete News. 11.16 Family.
12.10 am Faith For Life. 12.15 West
Country Weather and Shipping Forecast. VIKAINADA

10.30 am Sesame Straet. 11.25

Valley of the Dinosaura. 11.45 A Handful of Songs. 1.20 pm Dick Tracy;
3.00 Monday Marinee: "River of Gold."
5.10 Felix the Cat. 5.15 Crossroads.
6.00 Granada News. 6.05 The Rohde
Reports. 6.30 Get Some Int. 11.15

Colgate World Mixed Golf Championahra.

YORKSHIRE 10.30 am The Herbs. 10.45 Canade-Five Portraits. 17.35 The Roman Holi-days. 1.20 pm Calendar News. 3.00 Untermed Frontier. 3.20 The Sullivans. 5.15 University Challenge. 6.00 Calender (Emley Moor and Belmont editions). 11.15 The Do-Goodors. 12.00 Barney Miller.

1.50 Tamas Vasary piano recital (s).
11.00 Music interlude. 17.25 Cricket.
Third Test: England v India, including
1.35 p.m. News. 1.40 Your Letters
Answered. 2.00 Lunchtime scoreboerd.
6.40 At Homs. 7.10 Pied Piper (s).
7.30 Proms 79, part 1: Debussy. Birtwistle (s). 8.20 From an Abandond Work by Samuel Backett (s). 8.40 Proms 79, part 2: Mussorogsky (s). 9.30 The Petal. 10.00 Dietrick Fischer Dieskau song recital (s). 10.30 Violin Sonatas (s). 11.25 Jezz in Britain (s).
11.55-12.00 News.
VHF with Medium Wave above except 6.00-7.00 and 11.00 a.m.
7.10 p.m. as follows 8.00-7.00 a.m.
Open University. 11.00 Edinburgh International Festival 1979 concert. part 1 (s). 11.301 Festival Comment. 1.455 Concert. part 2, 1.00 p.m. News. 1.05 BBC Welsh Symphony Orchestra (s). 1.55 Music for Organ (s). 2.35 New Records (s). 5.90 Piano Duo. 5.45-7.10 Open University.

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Wood. 10.00 Open Lino. 1.00-8.00 pm
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8.00 After Eight. 8.00 Nightfine. 12.00
LBC Reports. 1.00 am Night Extra.
4.00 Monty at Large. Days, and at 8.02 The Big Band Sound (a). S.02 Humphrey Lytteiton with The Best of Jazz on records (s). Sports Desk. 10.02 Funny You Should Ask. 10.30 Ster Sound. 11.02 Big Band Sound Ask. 10.30 Ster Band Sound Sound Ask. 10.30 Ster Band Ster Band Sound Sound Ask. 10.30 Ster Band Sound S

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To visit the Roman Catholic cathedral by Sir Frederick

Gibberd in the same city is to see the true poverty of the modern style when it strives for

meanings that are outside its range. The award given to Liverpool reflects the new

climate in architectural thought.

It is no longer a sin to look at history and no longer criminal to design buildings that

not only refer to the post but actually rely on tradition.

The building that took a fourth award is the Theatre

Royal in Nottingham. It is a

standard Victorian theatre that

has been refurbished and added

to by the architects. Renton Howard Wood Levin Partner-

ship. The remarks of the jury

are very informative about their

feelings for architecture at the

moment. They say the archi

tects have created a delightful

imitate its virtues.

The State of the Art by COLIN AMERY

There is something touching about the remark made in the current issue of the Royal Institute of British Architects Journal, "Current British Architecture is enjoying enourmous popularity overseas." What do they mean? Are British architects secretly building masterpieces on far finng for-eign shores? Or, are hordes of foreigners rushing to take package tours around the centre of Birmingham?

Alos, neither explanation is the right one. The fact is that a few foreign critics and architects have decided that they are tired of the waywardness of much that is new in Japan and new architecture in Britain see the traditional architectural virtues are alive and well.

It was the annual announceof the RIBA Architecture Awards that prompted the Insti-tute to wheel in the foreigners defend the profession in Britain. I wonder how many natives would agree with their

The RIBA Awards provide a ood opportunity to survey the British architectural scene and this year they are particularly revealing. Four recently completed buildings received full scale awards and sixteen were commended. A look at the four winners is perhaps enough to test the quality of current buildings and to attempt an assessment of the state of the art.

Of the four winners only two are full blooded new buildings, the other two are a magnificent . cathedral that was conceived in very different times and a revamping operation on a Victorian theatre.

The two new buildings are rooms. The interior reveals the both offices and both in the quality of the structure which country: Gateway House in is a series of pyramid shaped Basingstoke, designed for the roofs supported at each corner Wiggies Teape paper group by by concrete columns. Nothing Arup Associates, and Winslade remarkable about this but a Manor, new offices adjoining an regular and pleasing series of old house for the London and Manchester Assurance Company near Exeter designed by Powell, Moya and Parmers.

Theatre Upstairs

Glossop's design consists of the

was Home Secretary, Chelsea at

soldiers, another element in the

combined operation of law and

to the media. The whole com-

veals himself to be a Detective

Susan Hampshire to

star in Night and

Day'

Susan Hampshire takes over

the leading role from Maggie

Smith in Tom Stoppard's award-

the Phoenix Theatre on Sept-

production which opens on

Broaway in November.



Liverpool Cathedral

The award jury praise Gateway House for its "bold gestures at a more humane approach to a large headquar-ters office building." The building is a low terraced arrange-ment with a striking series of rooftop gardens that are so disposed to provide verdant views from every office window. Gone is any sensation of a cliff of offices, instead there is the pleasing effect of half a ziggurat sprouting with greenery.

ture of large open plan spaces building of consistent quality, materials.

Carnival War a Go Hot

by MICHAEL COVENEY

new plays of the year continue about being a black member of the instructor, a character comto emerge at the top of the the law-enforcing establishment, perently played by the excellent

undermined, the audience never

In this respect, Mr. Hastings

more daring. The chief girl,

having bemoaned her lot of

virginal young soldier about to

join in the chorus of Rod

Schreier recital

cancelled

Peter Schreier is indisposed

with a throat infection. His

recital tomorrow night in the Queen Elizabethe Hall is can-

celled and wil be replaced by a

chamber music concert with

W. A. - Mozart, Xavier Mozart,

Fauré, Ravel and Ibert.

The Royal Court's main stage he springs to action in the play's

is dark at the moment, but the first violent outburst; one of the

English Stage Company's best lads has taunted the copper

stairs. After Wallace Shawn's The play is cunningly devel-

waspish threuody of New York oped as both an exercise in indissipation. Michael Hastings ternal relationships and a study chips in with the best English of this raging corporation's

costume farce since Joe Orton's attitude to the outside world, What The Butler Saw. dimly represented by the distribe recommendation, put like tant throb of a steel band. Ex-

that, needs elucidation. Roger pectations are continuously

interior of a green military bus allowed to draw final conclu-

on the fringe of a recent Not- sions about what the uniform ting Hill carnival (Merlyn Rees or lack of it, implies

home to Norwich). Into it are has written a comedy more com-

crowded three policewomen. plex than his successful Gloo

Literally stripped for action, Joo and, in its stunningly evoca-they are joined by three young tive and physical climax, much

order. A black policeman, in being taken for a sexual reject

the job merely for money (what or even a lesbian, reveals herelse?), boasts of his role of sop helf to be just that. The

pany is overlorded by a civilian be drafted to Ulster finds sexual

instructor in "counter opera- gratification on the back seat of tions." A long-haired hippie re- the bus. The others dance. All

Winning play Night and Day at Pinchas Zukerman, Eugenia,

the Phoenix Theatre on Sept- Zukerman, Yesim Bronsman, ember 10. Maggie Smith leaves Yo Yo Ma. Marc Neikrug and

the cast to head the American Nancy Allen in works

Sergeant from Tulse Hill when Stewart's "Sailing."

not one to make your heart leap with excitement but of a standard that should be basic

for all new buildings. Much the same sort of feelings are aroused by the other award winning office building. Winslade Manor is an example of architectural good manners. It is really a giant service wing to an existing 18th century country house. As an exercise in scale it succeeds because the orouting with greenery.

Inside the offices are a mix- building with the house and stables adds effectively to the fine setting.

The two and three storey additions are uncomprisingly modern, built of reinforced concrote with a colonnade of columns around the perimeter. They fit well into the older setting because they have some shapes that reduces the blank of the virtues of the 18th century emptiness that overwhelms so house, like simplicity of detailmany large offices. This is a ing and a restrained use of

At this point the resemblances

to Orton's great farce become

clear. The Dr. Rance figure is

laughs come a little too slowly.

Portobello Road, and the action

splits into preparation for the conflict and the frantic aftermath. The best performances are those of Sue Lynne as the cool, fleshy-thighed lesbian, and

Stephen Petcher as an aggres-sive soldier. Mr. Petcher and

his colleagues, kitted out in

funny rehearsal sequence.

has much to say about how

Exhibition of

sporting pictures

The thirty sporting pictures

recently presented by Mr. Paul Mellon to the Tate Gallery.

which it was to have been

shown next winter are now on

view at the Tate Gallery until

This gift, made through the

Sporting Art Trust,

two paintings

Sunday, September 30.

The busys stationed near the

So far so good. It is possible to see how committees of archi-tects found serious virtues in both of these buildings. There is also no doubt that the people who work in them find them agreeable and that they provide minimum environmental standards that should be provided by all large corporate employers. But are they really distinguished pieces of architecture? I suspect that most people would say that they liked them well enough but they would not be

This is not the case with the true understanding of the third award winner, Liverpool's nature of architecture leads in-Anglican cathedral. This is undoubtedly a great building. a rarity, a place set apart. It was brave and right of the RIBA liself every year is also showing to belatedly acknowledge Sir encouraging signs of a change Giles Gilbert Scott's masterpiece. It has been building for respond to and reflect society 75 years and now stands as a and architects do now realise vindication of Scott's belief that that our everyday needs are not you can interpret historic styles as simple as they once thought.

likely to travel far to see them.

Wembley Stadium

The Who

There strangely formless about The Who's concert at Wembley on Saturday. In prospect it should almost steals the show from the have been quite an occasion— surrounding frenzies; and they the first major appearance for probably missed the unconpetently played by the excellent sears of one of the great rock trolled spasms of the late Keith Bernard Gallacher but, in Antonia Bird's somewhat mistimed production, not as fully into the writing's groove as he could be As a result, the incoherant rock trolled spasms of the late Keith bands at a time when their Moon, even though the replacement original image as mods was enment drummer Kenny Jones (from the Small Faces) laid younger generation. Just as down a very solid rhythm. into the writing's groove as he younger generation. Just as could be. As a result, the the incoherent rockers were pushed over by the smarter mods in the mid-sixties so the

punks of 1978 are giving way beneath a wave of neat suitings and heavy over-coats. To top up the good timing The Who has just released Quadrophenia, a film which harks back to the Brighton Bank Holiday rumbles and which has enjoyed a great critical success.

absurd riot gear, look like peace-keeping astronauts, an image But instead of a happy union of the old and new, of a concert mercilessly exploited in a very which showed established masters exciting fresh youth, the heavy hand of commerce was Mr. Hastings' achievement is over the show. The emerging not merely technical; his play ands know that they must play in small halls to maintain concommunity faces its responsibility to enjoy itself, and the tact with their audence: there can be no contact in Wembley ms, we gather, may start with those dictating the condiwhen the pay outs for everyone tions and, inevitably, the limits. concerned have to be at the tax

exile level. This was a return to the mammoth festivals where everyone goes through the paces, and being there is more important than enjoying yourself: it is at odds with "new wave" immediacy and not surprisingly the audience was old Who fans rather than new Mods. They certainly enjoyed seeing Pete Cownshend and Roger Daltrey perform again, like over-wound puppets, the same convulsions that created the Who legend more than a decade ago; they

of John Entwistle, the frozen bass man whose immobility

For men in their mid-thirties the Who remain trim, and the well-worn gestures survive-Daltrey whirling the microphone lead, Townshend, eart-wheeling his arms and vaulting around the stage. But it looked a bit slowed down, a remembered routine. The songs stay the same, too, although there was a lot more than formerly, perhaps too much, of "Quadrophenia." suggesting that a bit of plugging was underway.

dramatic effects, mainly concentraded around the short excerpt from "Tommy." Spotlights raced around the vast stadium; green strobes made patterns on the faces; rockets exploded and smoke puffed. For a time the music and the spectacle lifted the spirits. After this injection of drama the white flash at the end of the concert and the lighting of matches, by the 70.000 or so to coax an encore were something of an anticlimax. Once again there was a sense of duty, not of delight. was subdued and rather dated. We had all been here before, just two hours before in fact, when the Stranglers had ended their more biting set with even bigger bangs, brighter flashes and a torrent of smoke.

ANTONY: THORNCROFT | be about 17 or 18 years old. and

Coliseum

Die Fledermaus by MAX LOPPERT

new Fledermans is not wholly by Glen Byam Shaw and Tom Hawkes, bears a very close resemblance to Byam Shaw's pre-vious staging for the company, which began life at Rosebery Avenue, and then survived (not without a certain mouldiness at the edges) into the St. Martin's Lane repertory. Thursday's Lane repertory. Thursday's performance was, in the main, a pleasant, friendly evening. It presented Strauss's operatia a

good deal more faithfully than does Covent Garden in its splashy multilingual knees-up. What it does not entirely manage is make of the operetta the kind of riotous entertain-ment we still (perhaps sub-consciously) expect of it. Is this asking too much of the company, in English, in a theatre the size of the Coliseum? The work has dated. Cham-

"where the question of pagne is no longer a symbol of which is old and which is new hardly arises." Not so long ago the cries of "pastiche" would ultimate hedonistic abandon; drunkeness is no longer a cause of universal mirth; and the have been ringing around the second-act festivities, at least as RIBA because the architects generally presented today, no spent a lot of time and money at Nottingham recreating the longer look much fun. The contrast with Offenbach's best Victorian detail of much of the operettas is instructive, for interior. There is no doubt that with similar dramatic impedithey learned from the old buildments, they can still sway the ing, and were not ashamed to senses through the dangerous wit, verve, and galety of their What the awards show is that music. The music of Die Fledthe profession is beginning to crmaus is not like that. It is beautiful. luxurious and fertile appreciate there is a wind of change blowing through modern in invention, full of good humour architecture and that the expertly imprinted on the notes: bellows are being pumped, not

comforting, unchallenging. Perhaps if the seedier, seamier aspects of the characters were allowed sharper focus, this might add a squeeze most people would agree that a of lemon juice to the rich. creamy mixture. At the Coliseum they are all played as nice people, good-looking and young-looking, having a jolly and essentially decorous time. Orlofsky's ball is, in fact, not all that jolly - the chorus stand around a good deal, providing a stage audience to the activities of the principals rather than participating as fully paid-up guests. The production is not coarse, and for that we should be grateful; at its best—in the opening scenes and in the prison scene, often a good deal longerwinded than it seemed on Thursday-a comfortable frame is est up around some very comic acting. It is an exceptionally pretty frame. Tim Good-

child's designs. Biedermeier in

The English National Opera's pearly grey and pink, later in ew Fledermans is not wholly black and white, all with lace new. The sets are, and the trimmings, also hold the pro- the spoken (if not always with costumes; but the production, mise of longevity, which is high the sung) words, grandly carup on the list of an ENO ried and at the same time self-operetta's requirements.

New to the company are Anne Pashley's Orlofsky and Clive laden fields. Miss Pashley's princeling, got up as a mustachioed cross between Marcel Proust and Charlic Chaplin, does not ape male manners: it re-invents them, with dash and great address. Mr. Dunn plays his long scene as a music-hall episode, minutely detailed and choreographed. That we accept it as such, and not as a tedious delay of the denouement, is a measure of his achievement. He played with Eric Shilling's prison governor, a disarming collection of all Mr. Shilling's best-loved stage devices, as though the partnership were of long standing.

to operetta leading ladies. She was not in best voice: the successful traversals of mine-laden fields. Miss Pashley's (a little two frequently mine-princeling, got up 30 Hillman's personable Eisensicin, and Geoffrey Pogson's fresh and funny Alfre'l ill deserve more attention than they can be given here. The conducting of Ian Reid, though it reminded us of the Schubertian grace in the scoring, tended to lethargy, and showed a less than complete comprehension of that most difficult of arts. the Viennese rubato. As always, there is a bandsomely full edition of the score at the Coliseum, complete with ballet music (shakily danced though it



Lois McDonail and David Hillman

Romeo and Juliet by B. A. YOUNG

The barrier that divides the his childish behaviour sits aptly openly, howl even, when she has Montagues from the Capulets is stands upstage as we take our seats to the accompaniment of Donald Fraser's twittering electronic sounds—an impregnable iron railing, patrolled by distant sentries. It serves later, moved downstage, to mark the edge of the public place where all the trouble happens, or as the first storey of the Montagues' house, or the wall of the Capulets' tomb. It never physically divides There were, of course, the the families, except when Romeo climbs over it with his rope-ladder, but the feeling of restraint is always present in

Robin Archer's design. Violence inhabits the playing to a similar degree. Old Montague and old Capulet them selves take part in the first of the disturbances. Capulet so far forects himself as to Tybalt's face (and gets away with it), and there is much pushing and shoving even among friends. The sense of strain caused by the great family vendetta lies over all. As the fashion is, the young people are dressed to suggest Renaissance Mods and Rockers. in Renaissance jeans and eather motor-cycling jackets. Michael Thomas as Romeo might At the subsequent inquest it which opens at the British

son and Christopher Selbie. It cutio; as you might expect, he with four. gives a ravishing account of the Queen Mab speech, but I couldn't believe that he was much burt by Tybalt's fatal verse-speaking, a very good perrapier. He seemed more concerned with coining a phrase than with staunching a wound. McKay, are furious

> Juliet looks delightfully pretty in the scene (played here on the balcony, not in the orchard)

upon him. His companions are heard the bad news. "Pomevisibly the dominant motive of somewhat his senior. They in- granate." by the way, has only this production by Toby Robert-clude Ian Richardson as Mer-three syllables, and won't scan Friar Lawrence, played by

Ronnie Stevens, gives everyone a lesson in clear and intelligent formance indeed. Barbara Jefford's Nurse is good too, not such a hag as Nurses often are. The fights, arranged by Ian and not so relentlessly affective. McKay, are furious but tionate. The senior Capulets are a notably human couple. Sheila Mitchell as Lady Capulet and childlike as Janet Maw looks a little old for 26 ("I was plays her; she wrings the heart your mother much upon these years that you are now a maid"): perhaps it's the effect

Viking arm-ring bought by the British Museum

found by a young woman on returned to Mrs. Creasey, her honeymoon last year has . The arm-ring was sold for been bought by the British £6.500 at Sotheby's in July Museum. The arm-ring, which when it was purchased on dates to the 9th to 11th centuries AD, is of Scandinavian on display in the Museum's Viking origin:

Devon, while collecting shells. was declared not to be Treasure

beginning "Gallop apace, you of living with Hugh Sullivan's Bery-footed steeds," though I tetchy old Capulet, another very think she might weep more well-spoken performance.

It was found last October by

Viking gold arm-ring Trove and was therefore behalf of the Museum. It is now Early Medieval Room, and will later be seen alongside other Mrs. Kay Creasey on the beach gold arm-rings from Ireland. at Goodrington near Torquay. North Germany and Denmark

in the exhibition The Vikings.

ceum in mid-February 1950.

CRICKET BY TREVOR BALLEY

How to avert spectator disaster

by

of play on the opening day and none on the Friday or the Saturday, it seems almost certain that that professional players are for the second successive year the Headingley Test can be written off as a cricket, financial spectator disaster. Once again, there was plenty of time to wonder how the game came to be invented in this country, and whether something can be done to assist the long-suffering spectator when the weather turns really mean.

Spectators would unquestiontheir money if the umpires and players were prepared to interpret "playable" more literally, and accept conditions that were less than perfect. On Saturday the pitch was dry, the square firm, and the weather comparatively small section of the outfield was bog-like.

Cricket could have taken place, but one must sympathise with the umpires, in the unenviable position of sole judges of constitutes reasonable

playing conditions. Their job depends, it must be dawned on him that Sunday with even the most enthusiastic fol- too many football directors.

receive from the captains, and they are only too well aware inclined to be fussy about conditions unless these happen to suit them.

For example, at the Oval in the Prudential International against Australia both teams continued, in a big thunder-storm to finish the match and avoid turning up next day. No talk about the danger of slipping and pulling a muscle.

One suspects less play would bly receive more value for be lost if at Test grounds there were an independent administrafor with power to act, and whose first duty is to the public rather than to the players.

Another way to provide more cricket to recompense the specfine, but the match was abantator who has paid, but seen doned for the day because a nothing, and to lessen the chances of a draw, which in the almost certain, would be to employ the rest day whenever more than six hours were lost in the first three days.

This move would be approved than 13 tests at home, which ing that reflected glory which by a marketing man until it could well prove too many for

by far the largest audience potential of the week, is the rest day.

Logic and money suggest that day on Tuesday, but this would not appeal to John Player, who the Sunday league largely because of television

Directly or indirectly, intentionally or unintentionally, sponsors must influence the decisionmakers in every professional

Though there has been a shortage of cricket at Leeds there has been no shortage of talking points, and plenty of time to discuss them. Alec Bedser and Ken Barrington have been appointed manager and assistant manager for the forthcoming visit to Australia.

England are due to play three Tests against Australia this winter, participate in a limitedovers knockout competition, and have one Test in India on their way home. ladia are due to play no fewer

The welcome increased prosperity of the counties as a result of increased sponsorship seems a Test in this country should to have been accompanied by start on Saturday with the rest a noticeable decline in standards by the clubs. The sacking of Smedly in mid-

season was hardly an advertisement for loyalty and diplomacy. On Saturday, Tony Lewis, who possesses a deeper knowledge than most, learned second-hand. following a newspaper revelation, that he and Jim Pleass, who had been a first-class player, had been sacked from the cricket committee by the full committee.

handled, by a body whose combined cricket expertise at a some doubts about, has endorsed my belief that too many counties are run by well-intentioned men who do not know what firstclass cricket is all about and, even worse, imagine they do. There also appears to be an

The way the matter was

increasing number of people on cricket county committees seeksupplies the motive force for

TENNIS BY JOHN BARRETT

Some vintage play from the veterans

THANKS TO indoor courts in Manchester and London, two national competitions at opposite ends of the tennis spectrum were completed last week on schedule. At the northern LTC in West

Didsbury, the under-21 championships, normally played on grass, were saved by the Tennisquick indoor court there and three others at nearby Stalybridge. The favourites, both former

winners, adapted to the change surface without difficulty. Michael Appleton, the Cambridge blue, of Lancashire, the holder, defeated Scotland's Donald Watt, 4-6, 6-1, 6-1, to underline his claim that university studies need not necessarily disrupt a tennis

Cathy Drury, of Lincolnshire, regained the title she first won in 1977 by defeating surprise finally Eleanor Lighthody of Wales. 6-1 6-3. The workmanlike Miss Drury has proved before that she can win relatively minor tournaments in Britain but she must venture further afield in search of toucher opposition.

In the 18 years of these

players have won twice John de Mendoza, was successful in 1969, and 1970, before dropping out of tennis a year or so later; Buster Mottram followed him with consecutive wins in 1971 and 1972—the same years that Glynis Coles won her titles: Both Mottram and Miss Coles

ultimately rose to the heights of the British game—Mottram is still ranked No. 1 and Miss Coles is a former No. 2-but I shall be surprised and delighted Drury emulate them. In London last week at

Queens Club, the All England Club at Wimbledon, and when it rained at the Vanderbilt Club, Shepherd's Bush, the 5th Veterans LTA Championships of Great Britain were being hotly disputed in three groups by about 160 of the keenest and fittest players aged between 45 and 70.

For the second year, the championships were supported by Polytrade, which supplies a modest cash sum to assit with administration and also provide some sportswear as prizes to gowith the trophies.

When

Worcestershire Freddie Field, became the first but not before the former Queens Club chairman, Clive 1966. Bernstein had given him a fright by saving a match point at 5-2 in the second set leading 4-3 in the decider before yielding 6-4, 5-7, 7-5.

The over-55 singles was another long affair resulting in a 7-5, 6-7, 6-2 win after 115 minutes for Czech-born Merik Kizlink over the eight-times Staffordshire champion Ken Jones.

Two more familiar figures of the veteran scene, R.A.F. Bundi" Reynolds and Ted the over-65 singles. Reynolds competitions in 30 years' time won as he usually does on these are well organised through the occasions, but the score 6-1. Robbins's practice sessions at Saab motor company. Devonshire Park, Eastbourne. the last Davis Cup the versus

Spain, are bearing fruit. about revealing their ages, so regular indoor weekend tournathe championships that there is only one age group ments throughout the winter

were first held in 1975, the left-hander, should have won the singles: was no surprise. For as Lancaover-45 champion. On Saturday shire's Miss Bentley, she was at Wimbledon he won again, ranked nationally in the 1900s and against the same opponent, and aspired even to Wightman

This year, the VLTA has enterprisingly launched a competition, for the over 65s. Called the Britannia Cup, and played immediately following Wimbledon, it attracted 12 nations this year, and the British team of Roynolds. Robbins and Kenneth Lo finished as runners-up to the

Fortunately, the game in Britain is well supported at both ends of the age scale. The inture veterans who Robbins, disputed the final of perhaps be enjoying the VLTA LTA with competitions and -6. 6-4 suggests that the scholarships supported by the

The £200,000 that Saab has which I witnessed daily during injected into the under-16 age group over the next five years has enabled Paul Hutchins to The ladies are somewhat coy achieve his goal of having Cutting an electricity link

across the Channel

CABLE LAYING MACHINE

ford. They surveyed the seabed

but found no convenient route

through soft seabed, such as can

be exploited in the Skaggerak.

So they must find a way of cut-

the chalk

The French are experiment-

ing with a method of "dredzing"

the chalk. The CEGB believes

that it will not prove man

enough for the hard rock which

it will encounter in patches

even in the reginly chalky sea-

bed along the 32-mile route

chosen between Folkestone and

The transmission division of

ting through rock.

lb per square inch.

ESTIMATED UK COSTS OF 2,000 MV

CROSS-CHARNEL CABLE:

(March 1979 prices)

*Electricité de France will have amiliar costa, plus the expense of strengthening its transmission system in north-cast France.

whether we can embed. If not, began by making a world-wide

Converter station at Sellindge

495 kV sub-station at Sellindge

DC submarine cable (32 miles)

Calays, controls, etc. Modification to 400 kV transmission

Land and other cables

it's ro go-both sides agree on

Civil work

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Monday August 20 1979

Perks and the tax base

system, whether it arises in cars in a more realistic way are income tan has been cut to tolerable levels, particularly at tall system which the present the top of the scale, it should possible for employers to offer incentives for high work and ambition directly through higher pay. The proliferation of perks in recent years in Britain has been a symptom of an un-healthy addiction to high taxes and restrictive incomes policies.

Higher revenue

The Inland Revenue concentrates on the desirability of achieving equity between em-ployees with and without the benefit of company cars. But an

The new taxes will corse, in approximately equal proportions, from roughly trebling the imputed benefits of company cars, and from bringing around Grossing-up Im cars which now escape tax altogether into the tax net. One of the most welcome features of the consultative document is at suggests eventually abolishing the discrimination against "higher-paid employees" (those earning over £8,500), a category that has little more than political expediency to ou tiff it. Under the present legislation only higher-paid employees are taxed on their fringe benefits. But the Inland Rewnue estimates that twothirds of all company cars are used by employees carning less than £8,500.

Special interests

Naturelly there will be squeals of protest against these perk, after tax. Thus a 50 per proposals, as there were in 1976, cent marginal tax payer who when the Inland Revenue pro-posed an almost identical should, in strict equity, have reform. But this time there are \$2,000 added to his is sable pay. when the Inland Revenue progrounds for hoping that change will not be sahotaged, as it was gressed up, there will still in 1976, by what the Inland theoretically be a strong fiscal Revenue calls, with wry selfrestraint, "representations from the motor industry." The pre- mined tax avoiders would recogsent government is less inclined nise, well before the fiscal to subordinate its overall advantages of perks are elimieconomic and social objectives nated, the greater advantages to the interests of particular of operating within the cash industries. It is also perhaps nexus.

PAYMENT in kind rather than more conscious of the link cash is a primitive and undesirable distortion of the market and cutting marginal tax rates. Those who might be inclined barter trading between nations to complain that a trebling of or in the remuneration of em- the tax they pay on their comployees. So the steps suggested on Friday by the Inland R venue of the benefits they received in to tax the benefit provided to the last budget, are overlooking employees who use company the main justification of the cars in a more realistic way are Government's fiscal policies. welcome. Now that This is aimed at incentives.

It is a most point whether the

government inherited took too much of the nation's income. What cannot be disputed is that entortionate marginal taxes on income discouraged people from trying to earn more. A profu-sion of tax allowances and an inadequate level of indirect taxes then saw to it that the Government's total revenue was not very much out of line with that in many other countries. The reduction in marginal tax rates and the broadening of the tax base, can be seen as two sides of the same coin. even more important con-sequence of the proposals will cossions, as income taxes come be to raise about 2330m in extra down to acceptable levels, the Government will be able to maintain its revenue and in-crease incontives at the same

Far from complaining, com-pany car users should be thankful that the Inland Revenue has not proposed an even harsher treatment of perks. First, only half the benefit of a company car would be taxed, when there "substantial" business use. which covers the great majority of cases. Even when business use is "insubstantial." tax would be payable on only threequarters of the full benefit.

Second, and more fundamentally, the Inland Revenue has shown no inclination to tax benefits in the most strictly equitable way. This would involve adding to taxable income the gross amount that would yield the value of the Until the value of perks incentive to provide benefits in kind. But even the most deter-

Brazil at a crossroads

THE CABINET changes an of 1964, has produced a sucnounced in Brasilia this month cession of strikes which have have underlined the strains which the Brazilian economy has been undergoing in the past few years. On top of an already large burden of foreign debt built up as the result of aggressive foreign horrowing undertaken since the late 1980s, the balance of payments has more recently had to sustain new and unexpected commitments resulting from the rise of the world

Protectionist

The bill for imported fuel this year may well touch 87bn and absorb more than half the receipts from exports. Hopes that inland and offshore exploration would quickly allow the country to increase the proportion of oil produced from domestic wells from the present meagre 20 per cent of consumption to something nearer self sufficiency have proved illusory. At the same time Brazil's exports, which must be increased in order to pay for the mounting import bills, are facing difficulties. Manufactured items such as shoes are being subjected to protectionist barriers in many industrialised countries. While the world's economy remains in demand for Brazilian products of all sorts, from coffee to iron

ore, must be slow. On top of all this the economy has to generate well over a million new jobs a year if the already serious unemployment problem is not to get worse and complicate domestic politics even further. Meanwhile inflation is creeping up and is now running at an annual rate of around 50 per cent.

Labour interests

Brazil's economic difficulties have been compounded by the domestic political situation. The work force is becoming increasingly restive particularly in the great industrial centre of Sao Paulo. Many workers feel that they have not been allowed to enjoy the fruits of the so-called "economic miracle" and on the statistical evidence available their com-plaints are not without justification. This, combined with a marked impatience with the sort of authoritarian rule that the country has experienced since the military coup d'etat

paralysed hundreds of factories from Sao Paulo to Belo Horizonte.

In this difficult situation the recently installed government of General Joan Baptista Figueiredo has been pulled two ways. There have been voices in his cabinet which have urged him to cut growth to a minimum in order not to place any further strain on the balance of payments and not to stoke the tires of inflation any further. The chief proponent of his policy has been Sr. Mario Henrique Simonsen, his planning minister.

Others have argued that such a course would only exacerbate. the political problems in the country and could be inforced by a return to that form of political repression that General Figueiredo pledged himself to abolish. There are those who thought that it could not be enforced at all given the growing and manifest power of the trade unions, the nationwide desire for political liber-alisation and the new found freedom of the Press to criticise government policy.

departure from the Government and his replacement by Professor Antonio Delfim Neto. the Agricultural Minister, indicate that Gen. Figueiredo has opted for the bold course of continued expansion and has not been moved by arguments for caution and retrenchment.

At first sight Mr. Delfim Neto appears miscast in the role of an expansionist battling on the side of liberalisation. The role he performed under previous presidents as one of the principal architects of the "economic miracle" did not endear him to workers' leaders. In his first pronouncements last week, however, he went out of his way to appear reasonable to organised labour.

For outside observers of the Brazilian scene and notably for Understandably enough, Groth is those institutions who have lent anxious to play down this possimoney to Brazil the decision of Gen. Figueiredo to opt for expansion is one which deserves careful study and analysis. Though heavily in debt already Brazil has signalled that it does not intend to stop growing-or

a calamity last week also interrupted trials of another marine venture—this one in the English Channel. Off Sandown, Isle of Wight, the Central Electricity Generating Board is taking its first steps into seahed

> In trials costing £25,000 a day. its engineers are hoping to demonstrate a novel way of laying cable securely on the scabed, out of reach of ships' anchors and the buffeting of trawls used to stir up bottom-dwelling fish. They hope to bury, by remote control, high-voltage electricity cables at the bottom of a narrow trench 5 ft deep.

If they succeed, four such trenches will be cleaved through the chalk separating rolkesto..e and Calais. Along them, by the mid-1980s, Britain could be exporting to France what a for-CEGB chairman called "coal-by-wire," to the tune of 1m electricity, saw an opportunity tons a year. The venture is profitably to export off-peak expected to cost about £350m (March, 1979, prices), as the accompanying table shows. But it could pave the way for fur-ther big electrical projects dur-ing the 1980s, for example between Britain and Ireland and Britain and Belgium. Both nations have been pressing the CEGB for this kind of support for their electricity systems. It could also be the way to safe-guard submarine telephone cables on the Continental shelf.

The venture is a joint one with France, under serious discussion between the CEGB and Electricité de France (FdF) since 1971. The basic idea, which is being exploited all over Europe in no fewer than 130 "inter-ties" between the electricity systems of adjoining countries, is mutually to enhance the security of electricity supply. If trouble strikes—a big generator suddenly fails, for example—one country can call upon another

Avoiding 'spillage'

But in practice there is much more to these international inter-ties than merely emergency service. They began to central Europe as a way of exporting surplus hydro-electric power when the dams were full. thereby avoiding what the engineers call "spillage": water running to waste. Gradually, the interconnected electricity companies found that they could swap more and more electricity profitably and to their mutual benefit. They took advantage, for example, of differences in the times of peak demand, buy ing in daily to meet the peak rather than installing extra "peak-lopping" generating capacity.

Britain joined the European electricity pool in 1961, when that," says Dr. Peter Howard, enced in seabed engineering. It to a point off Sangatte, the first the CEGB and EdF laid a cross-director-general of the CEGB's canvassed a couple of dozen of four test points along the Channel cable between Dunge-transmission division at Guild-companies, from utilities with proposed cable route. Over the

THE STORMS that turned ness and Boulogne: half each, the Fastnet yacht race into joined in the middle. It proved

> In 1974, badly hit by the OPEC oil price increases, the French began to urge Britain to agree to establish a new link. They foresaw a serious risk to supplies following dry years when their bydro-electricity capacity would fall. Britain, on the other hand, some 70 per cent dependent on coal for its power.

> sidered the possibility of swap-ping as much as 4,000 MW. But they settled on 2,000 MW as a espacity which could have a payback period of as little as five years. The plan has the tocit approval of the the two governments and letters of intent have been signed by the two utilities.

But there remains one big mile deep on the seabed.

its value to Britain in the rough winter of 1962-63, when we bought French electricity because icing was hampering our own system.

But with the rapid growth in electricity demand on both sides of the Channel, a 160MW cable soon became too small. Worse, it proved unreliable, subject to too much damage in a strait through which several hundred vessels pass daily, because it lies on the seabed. The cable is out of action more than half the

Subsectient discussions con-

uncertainty. Both parties agree that it would destroy the economic case for the cable if they achieved an availability no better than for the existing They are looking for a cable that operates for 95 per cent or more of the time. Other people's experience of sub-marine cables in less-congested channels confirm their view. The Norwegians and Danes, who collaborated on a 500 MW cable across a 90-mile stretch of the Skagerrak, have met enough problems since 1976 to be trying to bury much of the cable now lying up to one-third of a

submarine links to firms laying next few weeks while the pipelines. All their experience even of the North Sea-

Both utilities have mounted development programmes. They chose a depth of five feet as So the CEGB chose two UK companies as its collaborators: dred feet of cable. adequate to protect against all but a supertanker's anchor. Geo-Land and Marine Engineering, logical survey has indicated a experienced in the North Sear int of hard rock, with compresand Balfour Beatty, part of sive strengths as high as 25,000 BICC, with wide experience of 'Dredging'

> The principles of the trenchtried on a scale model, cutting hard rock in quarries last year. It uses a rotary shearer of the kind used in coal-cutting to cut a slit about 5 ft deep and 2 ft wide. At the same time it feeds a steel hawser into the freshly

machines: a 11+ton trenching

tractor, designed by Land and Marine; and an 80-ton cable-laying sled, designed by Balfour

eut trench. The sied follows, hauling itself along the hawser while feeding a pair of high-voltage cables into the trench. It is equipped with high-pressure jets to blow out sediment shead are operated remotely from a control console abourd an accompanying vessel, Bubdivers remain in attendance on the

These are the machines now being tried out at a depth of about 45 feet in the chalky seabed of Sandown Bay. Dr. Howard is delighted with the progress of his collaborators in delivering them precisely to programme in order to eatch the weather window this "Whether the project goes the CEGB, responsible for summer, Provided the trials ahead or not depends on Britain's half of the project, continue to go well, the plan is to move at the end of August

weather window remains open the system will be tested in dif-ferent rocks; chalk, sand, gault clay, hard sandstone and the one, concluded Mr. John Yales, project manager, had yet solved last and most difficult testthe problem of embedding in cobbles at 150 feet beneath the main shipping lane. Each time it will attempt to lay a few hun-

SEABED TRENCHING

MACHINE

John Yates believes that if it survives these tests costing about 25m, including the price of the muchines-the CEGB has submarine cables. In January a system that will cut a trench it placed contracts with these to I rance in 30 days or less. It companies for the design and will then lay a pair of cables in construction of two novel another 10 or 11 days. His aim is to lay them as unbroken lengths of cable, to avoid the inevitable weakness of a join made at sea. He hopes the French—who are closely observing the trials-can also be pering machine had already been suaded to use the system to cut their own pair of the four trenches which will be required.

The submarine cable itself, says Dr. Howard, presents no particular technical problem. although the CEGB has specified one that will not be oil-filled, lest it should ever be accused of leaking oil into the Channel.

It is negotiating with two potential suppliers—both UK-based—BIGC and Pirelli General. The submarine cable contract will embrace the cost of the cobles. Both machines of setting up a manufacturing facility for continuous stretches of cable of the length required; one which could readily find future markets both in Britain

The biggest slice of invest-ment however, will be in the ment however, will be in the team will disguise the size of converter station. This can be the building is still undecided. seen as one of a pair of stopcocks which when operated together, can switch the generating capacity of a big power it helps them accept it he station from flowing in one would be prepared to put in direction to flowing the opposite stained glass windows, he says.

site way. Its handful of operators, communicating in a curious meld of English and French, will t : able to control the flow of electricity to meet a con-tinuously changing pattern of demand on both sides of the

The two utilities agree that the most responsive way of controlling the flow is to convert the normal 400-kilovolt alternating current supply of each national grid into high-voltage direct current for the length of the intertie. In that way aberrations on either side of the Channel are not communicated to the national grid.

Modern technology of ac to de conversion and vice rera involves large silicon semiconductor devices called thyristors, thousands of them, assembled into "valves" and stacked up in large valve halls, and kept cool .* by freely circulating air. For the past aine months GEC has had a trial running in north-west London of such a converter valve to the evident satisfaction of the CEGB.

270 ft high building :

But the size and above all the headroom required for these valves suggests a big building perhaps up to 270 ft high. It also suggests the need for large fans to move large volumes of air to keep the valves cool. This in turn has persuaded those living in the vicinity of the proposcá converter station at Sellindge, about 12 miles inland of Folkestone, that the CEGB's proposals mean a noisy intrusion bilo their rural environment. They-have asked for and got a public inquiry, to begin in November.

The noise expected to come from the converter station is likely to feature importantly at the inquiry. The CEGB is inclined to play down any idea that it will prove intrusive to a community where the nearest inhabitant lives one-third of a mile away. The cooling fans will be buried in a false basement and the building itself will be sealed to keep out dust.

"It will be less than the rustling of leaves in the trees." claims Dr. Howard. He also points out that his divison has lately been installing jet engines in urban áreas to provide standby power from gas turbine stations, and has been able to insulate the surrounding houses from their noise.

Two-way flow salvantage of the Sellindge site is that it is conveniently close to the 400 kV arm of the grid between Dungeness and Canterbury, How Dr. Howard and his Those opposed to the project at Sellindge have said it will be as big as Canterbury Cathedral. If

Crying wolf in the woodshed

A seemingly insignificant take-over announced last week has stirred up the hornet's nest of Britain's highly traditional timber trade. Leo Groth, a director of Stora UK Group Holdings, managed to escape a good number of irate phone calls by taking a judiciously-timed holiday in the South of France. But he is now back at his desk and facing the not-very-harmonious music which has greeted the Swedish company's takeover of George Shipway, an old family timber company in Birmingbam.

"It's regarded as slightly treasonable to buy one of our customers" Groth admits. "They think if we are successful we are going to swallow one, then another, then another." But he insists that Stora-the secondlargest private owners of forest land in Sweden, with 2.25m acres -has no intention of upsetting the applecart, either by going into the retail market, or locking out its other suppliers: Then we would really have

burned our bridges." Given that Shipway is a relatively small company dealing largely in so-called "sludge" for pallets and packaging, these seem plausible enough denials. What worries Groth is that, despite his protestations of commercial innocence, the main importers in the UK-(four of them, he says, have well over half the country's supplies sewn up)-may terminate arrange-ments with Stora and put pressure on other suppliers to cut Shipway adrift. If that happens, Stora would be forced to distribute its own timber. "But it would be their fault, not ours."

Another small Midlands firm I talked to, also turning over around 22m a year, and recently to ask him how he defines the table in the trade.

recessity." its managing director tells me. "The little importer is being squeezed out by the conclomerates. His margins are under pressure. It's the only way he can secure his market." In the pert 10 or 20 years, he thinks, middle-sized companies which have not teamed up with an exporter will have disappeared. Many so called traditionalist importers have in any event set change in motion by trespossing in the last 15 years closer and closer to the retail level, traditional merchants' ter-

John's joke

Even propaganda wars have their lighter moments, as Eschel Rhoodie has been telling the Dutch magazine Elseviers. In his account of secret diplomatic contacts with black African states between 1974-76, the former head of the South African Information Department describes his "good relation-ship" with President Mobutu. ship" with President Mobutu, of Zaire. So good was this relationship, he says, that he was invited to the presidential palace and given the tour of inspection usually accorded honoured guests. This included a visit to the presidential bedroom, the major feature of which, it turned out, was two large statues of Mobutu placed at the foot of the presidential bed. On hearing the story from his minion, then-President John Vorster remarked that " Mobutu is the only man I know capable of giving himself a goodnight

Gang warfare

Henning Schorf, senator for finance in the Bremen state assembly, and a rising star among West Germany's Social Democrat politicians, set off recently on a cycling holiday. But whenever he stops pedalling there is a reporter waiting Peking who complained that a to ask him how he defines the great leap backward in the local taken over by a Pinnish word "gang." The tall, 40-year frog population was encourag-supplier, felt, however, that this old Scherf affects surprise. "A ing mass infestations of insects, kind of development was inevi-table in the trade. "It's a honourable up on the coast. It communes had been forced to word "gang." The tall, 40-year-

is a team of men who upload

survey of organisations experi-

This explanation fails to mollify Franz Josef Strauss, the Prime Minister of Bavaria, or Christian Democrat dailies. The outspoken Scherf had given an interview just before he mounted his bike, in which he finally. Franz Josef Strauss as Chancellor. It's like a bad dream. I would feel as if the country had been handed over

Strauss quickly weighed in calling this an insult to Carstens, the President-elect, to Stuecklen, soon to take up his new post in the Bundestagand not least to himself. With his ambitions to become Chan-cellor, Strauss is exploiting this chance to embarrass the Social

In the past, Scherf's un-conventionality has been fairly harmless — such as refusing a chauffeur-driven official car and biking around Bremen, or calling his fellow-politicians overweight and complacent. But the impression is now growing that he placed himself in real danger of becoming West Germany's answer to Andy Young.

Frogs' friends

The Chinese, like the French and others, are partial to frogs' legs. Chinese chickens like them too, and certain communes mount large-scale frog and toad hunts in the irrigation canals and fields.

But with Coca-Cola has come conservation. The influential newspaper Guangming Daily last week sounded a warning about "the ecological balance." The newspaper was commenting on a letter from a reader near frog population was encouragbuy large quantities of expen-

The reader reported that some farms were sending teams on journeys of up to 15 kilothe editorial writers of the metres in search of the hapless frogs. Each man could catch 1.000 a day. Some species, in-cluding a slow-moving giant toad with a voracious appetite "Imagine, someone like for the destructive army-worm Carl Carstens as Head of State. moth, were in danger of extinc-Then Richard Stucckien as tion: "It is possible to work for president of the Bundestag: and half a day in the wheat fields. without meeting a frog," he laniented.

Perhaps, like Scottish grouse, the frogs will have to be reared artificially if future hunters are not to return home empty-handed.

Abdul in the works

The wide boys of the Slater era are emerging, partly-recon-structed, from the woodwork. In certain cases happy days are here again, in others not. Into this last category fulls a veteron asset-stripper, now settling down to running an engineering company. He was explaining to me last week why his group had to write off nearly £500,000 last year. The explanation lacked it seemed to me, something in the lucidity department. Eventually his eyes met mine. " Look here," he said, with a hint of early Seventies abrasiveness.

" If we're entirely off the record

we got taken to the cleaners by a Saudi called Abdul."

Bidding in spirit

After a long and busy day last week ferrying around Michael Vernon, chairman of Spillers which has just had a bid sprung on it by Dalgety-Vernon's chauffeur went home and sunk into an easy chair. He was soon aroused by the telephone. It was his father asking what on earth was happening. "I thought Paul Getty was dead," the old man said bemusedly.

Observer

WHO CARES FOR THE BOAT PEOPLE? The British Council for Aid to Refugees (BCAR)

is the coordinating voluntary agency

for the RECEPTION AND RESETTLEMENT: in this country of Indo Chinese refugees.



Along with its member organisations BCAR is also operational, caring for thousands of these refugees, as it has for previous victims of persecution who sought refuge in the United

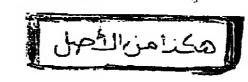
The Boat People who reach our shores are survivors. We can affirm from experience that their skills, abilities and determination will soon be enriching our nation in many-ways.

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NANCIAL TIMES SURVEY

Monday August 20 1979

China is changing rapidly and becoming increasingly open to the outside world at the same time as it is seeking recognition as a world power. In the first major survey of China to be published by the Financial Times, David Housego, Colina MacDougall and Geoffrey Owen report on their recent visit to China and describe the country's social, economic and political progress.

Welcome partner in the world

By David Housego

CHAIRMAN HUA GUOFENG IS to tour Western Europe in the autumn: It says much for China's historic disdain of the outside world that it has taken until the final quarter of the 20th century and almost 200 years after West Europe's piongering of the industrial revolution and of the socialist ideology on which China's communist regime is based for a Chinese head of state to visit this quarter of the globe.

But like Vice-Premier Deng Elaoping's visit to the United States in February, Chairman Hua's visit is a remarkable reflection of the change that has come over China in the last two years as it has nudged its way into the international community and sought to become part of the world's financial and

taboos. It has borrowed abroad, of stimulating enquiry and thus raised syndicated loans on the enabling China to absorb new commercial markets, encouraged scientific and technological investment in joint ventures in developments essential to its

roam across the country in a way that was rarely permitted to the western "compradors" of the 19th century—confined for the most part to their concession the seaports like

At the recent meeting of the National People's Congress it also revealed for the first time in 20 years a wealth of economic data, suggesting that China may indeed soon apply for member-ship of other global clubs like the IMF or the World Bank.

Overdue

China has also been seeking recognition for itself as a world power—and Chairman Hua's publicised certainly part of this objective. China wants to cut a higher profile in what it sees as the central issue of international diplomacy today containing the power of the Soviet Union. To that end it has normalised relations with U.S., signed a Treaty of Friendship with Japan and reached a long-term-fliough vaguely worded — commercial agreement with the EEC. It is also anxious to reassert its influence in South East Asia, risking this year a war with Vietnam to bring to heel an historic rivel and to challenge the growth of Soviet power in the region.

Along with this more open international stance there, has been a relaxation of control trading system. within China itself. Vice-Premier
To gain an entrance ticket it
Deng seems eager to encourage
has sacrificed many of its former intellectual debate as one way there was a crackdown in the spring when the posters on "Democracy Wall" in Peking and the demonstrations in Shanghai challenged some of the social and economic change basic assumptions of the communist regime. But China is probably a less repressive lifetime, and it now has at least

the framework of a criminal and

civil code.

In its bid to achieve more rapid industrialisation, it is looking to the west for technology. It is also trying to introduce into its own cumbersome bureaucracy, which has not begun to come to grips with the problems of how to rule a billion cople, reforms that to us seem long overdue—a devolution of responsibility to provincial governments and to industrial enterprises the use of the market mechanism to achieve a more efficient allocation of resources, bank supervision over credits to industry and, perhaps most important of all, the promise of higher standards of

All this makes China a more welcome partner in the world. It has other attractions too — the possibility of large offshore oil deposits, rich mineral resources and a substantial market (not as great as some had hoped last year but still important) for capital goods. But how long can the present power structure and the policies associated with it Survive?

living as a way to get people to

China's record since independence bodes ill for continuing stability in the future. There is probably no other sizeable nation in the world that has seen

modernisation. It is true that such upheavals in the last 30 years. Chairman Mao ran the country as if he was carrying out He was unable to accept that

comes slowly, The Great Leap Forward probably a less repressive the 1950s was followed by the society than it was during Mao's Great Depression. That in turn was followed by the Cultural Revolution, which began in 1966 and did not finally spend its force until after Mao's death in 1976. The trauma of those years—in which schools and universities were closed for much of the time so that whole generation has grown up with scarcely any education a all-is only now beginning to

be fully appreciated in the west Even since Mao's death, policy has moved by fits and starts. The economic plan that Hua trumpeted in 1977 for transforming China into a major industrial power was abandoned less than a year China, its leaders now is going through three year period of "readjust-ment." Western observers are Western observers are right to remain sceptical as to whether this is the final turn of the wheel.

Three factors will determine whether the present leadership and its policies can succeed The most immediate is that the leadership itself hangs together. Hua and Deng have been rivals in the past—Hua accused Deng of holding "wrong tendencies" in 1976 after Hua had helped boot Deng out of power-and will probably continue to be. But they seem to have struck

a modus vivendi in which it is

the moderates associated with

Deng who have the upper hand.

Political and social framework

The leadership seems to have struck a modus vivendi in the wake of the Gang of Four struggles and is trying to carry through major reforms. But the educational system is still recovering from the excesses of the Cultural Revolution and living standards are rising slowly. In foreign policy distrust of the Soviet Union is the dominant

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Economy

The years of neglect, political disturbance and lack of investment have created many obstacles to the country's attempts to modernise by the end of the century. During the current period of readjustment higher priority is being given to agriculture and light industry, but there is an urgent need to correct weaknesses in basic sect**er**s like power and transport.

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Industry

Disruption of factories' internal management and excessive bureaucracy have left the industrial system plagued by inefficiencies at all levels. But changes are under way. Managers are being given greater autonomy and joint ventures with foreign partners are being encouraged to attract new technology. A huge programme to build chemical plants has been undertaken and China is trying to reorganise steelmaking to make the best use of existing facilities.

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Energy

A serious power shortage has become an important constraint on economic growth, requiring a big investment in new coal mines and power stations. Off-shore exploration is being given the greatest priority, with contracts for seismic exploration agreed with Western companies. Peking is working on a law under which companies can explore and develop new fields.

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Trade

China will have a trade deficit this year, as it did in 1978, but in contrast to last year plans for import growth are more cautious. Trade with Japan has grown fast as a result on the long-term agreement signed last year, but there should also be considerable opportunities for European and U.S. contractors.

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Still divided on power and policy

THE NEW LEADERSHIP

DESPITE THE harmony is China portrayed to the outside world and the announcement at the recent National People's Congress of bold new plans inspired by Vice-Premier Deng Kizoping—only No. 3 in the hierarchy but clearly still the force behind the throne-the leadership and the country are still divided on questions of power and policy.

is certainly with the pragmatic Hua Guofeng, the nominal Deng and his supporters, whose leader of the country, and the Incentive policies appeal widely so-called "Whateverists.

to the average Chinese, there is The pienum decid growing evidence that a substan- emphasise collective leadership tial body of opinion still clings and drop unnecessary honorifics, to the radical ideas and attitudes so that thereafter Hua's position prevalent in the time of Chairman Mao. These are represented on the polithureau by the distinguished leaders, one of "Whateverists," as the Chinece whom, Peng Dehuai (now dead). Press now calls them, those was sacked by Mao in 1959 for who say "Whatever Mao said attrocking the 1958 Great Leap

partly for personal reasons, investigations in Eunan pro-because personal loyalties are vince, where Hua at the time important in the Chinese system, was deputy governor. That and partly for political reasons, rehabilitation can hardly have since those who came to power as a result of the Cultural are afraid to lose it (the semiofficial figure for deaths during that period is now 400,000). It even springs from ideology, since the years of Man impregnated almost every official in almost every institution with the idea that success and profit. which the present leadership is desperate to pursue in order to galvenise the economy, were somehow wrong.

Despite this, the prevailing voice of Peking constantly promemarking that the vast majority of people who oppose its current policies do so because

those who repent and adopt the new line, and that the days of dismissal and humiliation are over. Such is the implied explanation for the fact that there are still half a dezen or so well known hangovers from the Cultural Revolution officially on

the politbureau. Year, to unrul Underneath this superficial of discontent. calm, turbulent crosscurrents are flowing. Last December the ascendancy of the pragmatists seemed a foregone conclusion, when the Third Plenum of the Central Committee of the 11th Congress of the party met and confirmed the personal standing Though the balance of power of Deng, both vis a vis Chairman

The plenum decided to so that thereafter Hua's position was downgraded. It also rehabilitated some former distinguished leaders, one of Forward. Peng's criticisms of This division has come about the Leap were based on his been welcome.

Although the "Whateverists" Revolution and its attendant retained their polithureau arbitrary arrests and killings ranking at the plenum, they ranking at the plenum, they were diluted by some important new appointments, of which the key one was that of Chen Yun, China's leading planner of the 1950s. They lost their executive functions, and their apparent powerlessness was underlined the new policies announced then of impending economic and legal reforms, which were clearly those of Deng.

But in March and April the pendulum moved the other way. The "Whateverists" on the politbureau, out of sight since December, began to reappear in public, a sure sign that their they are mistaken and not be-cause they are adamantly hostile. Deng had become vulnerable because two, and perhaps three, Deng had become vulnerable

The first was the new liberalism which had allowed the cutbreak of posters December. These escal rapidly from permitted attacks

on the Gang of Four to the questioning of Chinese policy in general and, in the New Year, to unruly manifestations But few of the people who swarmed round Democracy

Wall in Peking were genuine wrongs done during the Cul-disruption, whatever its bet fural Revolution, to improve living standards and social con-Evidently, then, in living standards and social con-ditions and to open up con-tracts with the outside world, vulnerable. The top-level party it was the rare one that suggested alternative policies. Later, the emphasis of the demands moved still more towards amending social wrongs, particularly at the Spring Festival (Chinese New Year), when huge numbers of young people who had earlier been sent down to the countryside returned to the cities and refused to go back.

Inability

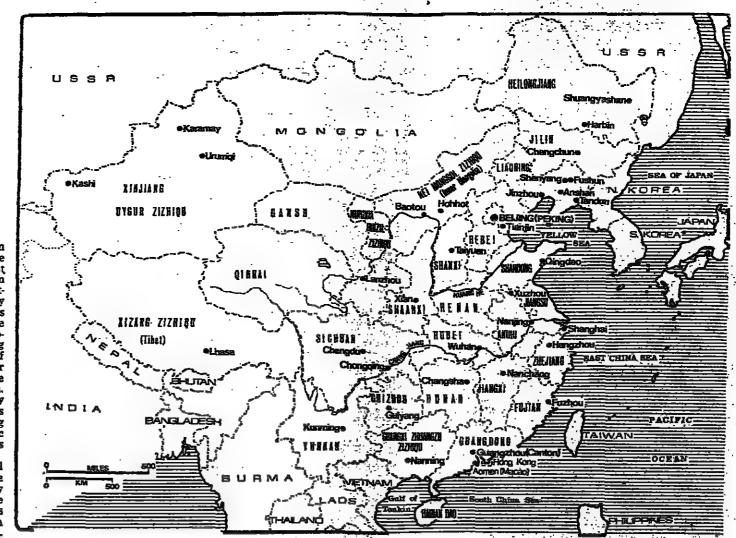
This outburst of feeling, plus the continuing inability of the local authorities to find jobs for the school leavers of 1977 and 1978, brought home to the central leadership the magnitude of the unemployment problem on their hands. In fact this appeared to be a much more serious threat than political dis-sidence, for the intellectuals, particularly the younger ones, were much more concerned about getting a job and making a niche for themselves and their families within the existing system than in setting out to change it. All the same, more traditional and less sophisticated He holds both the top two leaders than Deng were posts in China, and how-panicked into demanding sup- ever far he seems to have pression, clearly believing that these liberalising trends were a

Publicly the leadership says of his policies had run into the time for the over-extension that all will be forgiven to trouble and lost him support. of the economy caused by the uncontrolled construction last year in the modernisation fever. Bottlenecks and shortages had become glaringly apparent, and the new freedoms for enterprises to negotiate independently for foreign equipment meant the alarming approach of a shortage of foreign exchange. A further possible embarrassment was the February invasion of Vietnam. which Deng had clearly political innovators. While the favoured. It was by no means posters revealed a strong an unqualified success, causing demand to right the personal large losses and some economic disruption, whatever its benefits

> working meeting that took place that month to reorder priorities probably saw fierce criticism and no doubt some hard bargaining But by June Deng had apparently quelled the opposi-tion. The National People's Congress that month numbered among its achievements a new economic plan based largely on material incentives, a new body of law to confirm some rights to the individual, and the appointment of three new vice-premiers, all solid economists of 1950s vintage. There is no doubt that these were Deng's objectives, and that he now has a strengthened body of support

at the top.

Nevertheless there is still substantial opposition to his ideas. The "Whateverlats" ideas. The "Whateverists" remain in the leadership, in spite of renewed poster attacks in July on the most prominent Wang Dongxing, once Mao's bodyguard and leader of the elite army unit 8341. In addition Chairman Hua's position is ambiguous. He was once himself a "Whateverist," though before the term was coined. travelled to Deng's side since his accession to power in 1976. listake. he still rose to his present Deng was also in trouble at position as a result of the



sufferings of Deng and his friends. The continuing promotion of rehabilitated leaders -particularly Peng Zhen, who disappeared in 1966 and was once far closer to Mao than Hua has ever been—is a constant threat to his pre-eminence.

None of this might matter if the moderates in the leader-ship could be certain of carrying the country easily along with them in their new policies. But they cannot, Since the Congress, the Chinese Press has regularly blasted the "villains" "arch-criminals" the policies of Deng. 0pp0se Some important provincial leaders have not abandoned traditional Maoism nor adopted the more-rewards-for-more-work

ideas which are the foundation

of Peking's present plans.

There are some, the People's Daily said emphatically in July. who actively pushed the Gang of Four's ultra-leftist line and still have not changed their stand, who "are accustomed to trimming their sails and manoeuvring among different groupings." In the rural areas there are "ultra-leftists" who might make a comeback since "caused chaos" in March and April, describing the policies of Deng as "deviationist." And there is a vast mass of uneducated, inflexible officials whose main experience was in the Gang's period. accept t as normal and refuse to change.

stitute a formidable hurdle for the leadership to overcome. Deng has a strong team in Peking but his policies are a gamble and could still be frustrated by hostility at the top and the opposition, fear and inertia of an influential minority distributed throughout

COMPARATIVE BASIC STATISTICS

| | | CHINA INDIA U.S. |
|------------------|--|---------------------------------------|
| Area (m sq km) | | 3.6 |
| Population (m) | 1 | 975 626 317 |
| GNP (\$bn) | | 380 (est.) 103 1,782 |
| Exports (5bn) | i dia salah Sajaran | 10.7 |
| Imports (Sbn) | 11 and 12 | 172 B |
| Grain production | (m tons) | 205 126 267 |
| Steel production | (m tons) | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Crade oil produc | tion (m tens) | - 104 |
| Coal production | (m tons) | 618 102 - 660 |



Chairman Hua Guotena



Vice-Premier Beng Xiaoping

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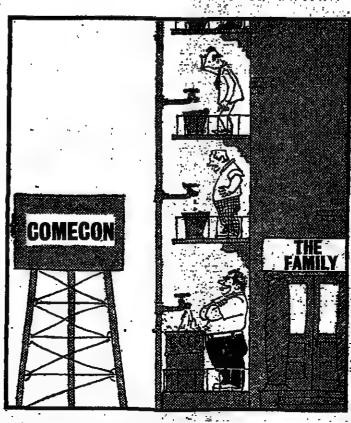
Deng has got his followers into key posts as Vice Premiers or into the politbureau.

But it would be unwise to conclude from this apparent rapprochement radicals, who climbed up the ladder of power during the Cultural Revolution and supported Madame Mao and her three colleagues in the bitter struggles of 1976, remain strong. They are particularly strongly entrenched in the niddle levels of the administration and the party machine, either biding their time or else actively opposing the changes

now occurring. The second factor is that Deng's policies will ultimately be judged on whether they achieve higher living standards. As a broad generalisation the Chinese are weary of Mao's type of moralising and want to see some rewards from their years of toil. The strongest card in Deng's favour is that his policies do respond to a long-term wish for higher living standards that has periodically raised its head over the past 30 years only to be pushed down by the puritanism of Mao and indeed of that streak of self-abnegation in the Chinese character to which he appealed.

Deng has bought immediate coodwill (and probably a lengthy breathing space) by raising rural and urban incomes by a izeable amount. But over time, higher incomes have to be paid for out of higher agricultural and industrial output, which, as Mao found, move up only rela-tively slowly in a country like

The breathing space is needed to carry through the major reforms that Deng is attempting during these three years of adjustment. Most difficult of all will be the needed changes in attitudes they imply—attitudes, for instance, towards material incentives, managerial responsibility, foreign loans and investment-in a bureaucracy that is the schools were closed or in



Water isn't getting to those upstairs." A Shanghai daily newspaper's view of the disproportiate share taken by the USSR from Comecon membership.

dox Maoism and apprehensive of taking decisions itself. The "new" ideas are coming from men in the 1970s who had a brief chance to try them out when in power in the early 1950s.

however, by most of the estab-lished bureaucracy. They are even less understood by the generation of students who should have been at school or university between 1966-76 but who in practice picked up hardly any education because

timid of change after the scars turmoil or the students had of the Cultural Revolution, burdened by the dead hand of orthoside. Finding them work in addition to the millions of jobs needed for the generation now of an explosion in the hirth. rate during the Cultural Revolution which is now reflected They are not understood in an explosion in the school-owever, by most of the estab- population) is as big a headache as feeding China's population. Per capita GNP in China is

now about \$405. The country every 1,000 people it produced xenophobic and eight bicycles, four sewing regime.

this admittedly crude basis, China fits into the category of middle level developing countries attempting now like other developing countries to raise its national income by expanding its agricultural output; by upgrading its industry with the help of foreign technology; and by trying to pay for this by exporting more manufactured goods against the tide of a world recession. Developing countries have a way of muddling through. But China is of course more

machines and 13 watches. On

than a developing country, has Ibn people and adding to its population at the rate of 10m 20m a year, which at a time of pressure on land and food throughout the world inevitably makes it a force in world politics. The exedus of refugees from China through Hong Kong this year, the war with Vietnam, the resistance of South East Asian states to a new wave of Chinese immigrants carried to the point of pushing them back to drown at sea can all be seen as part of an im-mense communal and population problem that will grow more troublesome as the years

Russians as a major security threat, a perception which in itself draws China into the West's calculation of the global strategic balance. In its efforts to find a counterbalance to the Russians, China is also being drawn and the counterbalance of the counterbalance of the counterbalance is also being drawn and the counterbalance of the counte drawn deeper into a Pacific community of Japan, the U.S. and as yet to an unknown extent—the newly industrialised countries of South Korea, Tai wan and Hong Kong.

In the last resort the West stands to gain substantially by the changes being made in China and by China's more open stance to the world. If Dens and his policies should fall, last year produced 3 cwt of there is every chance that the steel a head, 6 cwt of cement, pendulum would swing sadly 7 cwt of chemical fertiliser; for back to another isolationist.

هكذامنالأجل

Worldwide drive for new friends

FOREIGN POLICY

THE ECONOMIC policy of the new Chinese leadership is a legacy of the early 1950s. But in foreign policy it has struckout on a course that is entirely

At no time in the past 30 the precepts of self-sufficiency or of aloofness from the non-Communist world as it has today -for a diplomacy by which it seeks to acquire the status and responsibilities of a major power. The normalisation of relations with the U.S. the Treaty of Friendship with Japan and the extensive tours its leaders have made through South-East Asia, Europe, Africa and the Middle East point to Peking's desire to strike up new alliances across the world. Moreover, for the first time in 17 years China has gone to war, launching in February what it described as a limited counter

attack on Vietnam.
Linking these divers strands
is the central belief of Chinese foreign policy—that the Soviet Union is an expansionist power determined to strangle China by encircling it and that it must be challenged at every stage in its advance. In the warnings of Vice-Premier Deng Xizoping in Washington, in Peking's denunciations of detente and the SALT agreement as valueless, in the invasion of Vietnam itself, lie the same message of the need to resist Soviet

Alliances

Thus China's response to the threat of Soviet encirclement has been to stake out its own network of alliances designed to outflank the Russians. Its invasion of Vietnam shortly after that country had signed a treaty of friendship with Russia was an attempt to demonstrate that such a treaty offers little guarantee of national security. The result of the out the use of force to annex action has been to make Indo-

Smo-Soviet rivalry. talks with a view to resolving has been followed by cultural

the Russians that led China in attempt to present their close risky war with Vietnam April to abrogate its own 30-year reaty of Friendship with the Soviet Union. But so long as the U.S. and other Western powers leave the door open to Moscow Peking feels it wise to

The philosophy behind this policy was spelt out in Denc's speech to the UN in 1974—after China became a member of the UN and before Deng was ousted Soviet Union as the most dangerous of the super powers,, ready to precipitate a war with the U.S. and against which the second group of powers such as Japan, the EEC or China should be prepared to take a combined

ing new alliances to offset Rusment has been signed—and Hua sian power. In August it signed is to visit West Europe in the the Treaty of Peace and Friendship with Japan-thus officially ot least ending any lingering resentment at Japan's invasion of China before World War II. but more important, signalling China's success in getting Japan to give preference to China over the Soviet Union in its relations with the two major Communist

The Japanese would have preferred parity of relationship in their ties with China and the Soviet Union because of the potential of the two countries' natural resources. But they ultimately went ahead with the treaty in spite of Russian opposition because of the Russians' unwillingness to show any accommodation in the dispute over the return to Japan of the Kurile Islands that the Russians occupied in the war.

In January, China and the U.S. unexpectedly announced that they had agreed to normalise relations. The roots for this move were laid during President Nixon's visit to China in 1972 but the discussions at the time left a number of questions about the future of Taiwan unsettled. During his visit to the U.S. Deng agreed to respect "the realities" of Taiwan without formally ruling the island. The U.S. abrogated china the new focal point of its defence treaty with Taiwan ino-Soviet rivalry. but will continue to sell it.

The opening of Sino-Soviet arms. Though 'normalisation

ties as the strengthening of the anti-Soviet bloc-or what in as "playing the China card."

his first tour abroad as Head of suspicious of the growth of ethnic Chinese refugees from Soviet power. The Chinese Indo-China in the first have condemned the U.S. from power for a second time suspicious of the growth of by radicals—which portrayed the world as divided into three have condemned the U.S. failure groups. Deng picked out the to stand up to the Russians in Chinese communal feeling in northern border. the Gulf region and have suppact. They have championed Pakistan—possibly to the point nuclear capability. Their senior leaders have toured Africa and the EEC-with the EEC a long-Peking has thus been pursu- 1erm though vague trade agreeis to visit West Europe in the

Parallel

Along with the goal of building up a network of relation-ships with the major indusparallel aum of strengthening China itself through a modernisation programme drawing on foreign technology. This the leadership can claim to be enhancing rather than diminishing the familiar goal of selfsufficiency by a more active foreign policy.

Trade pacts - and more important, an increase in the volume of trade and the readiness of the Chinese to expand imports of capital plant through lowed the new diplomatic initiatives. That the Chinese in their first flush of enthusiasm for Western technology bit off more than they could chew does not alter the fundamental shift in attitude towards the importance of foreign trade in stimulating

Chinese policy in South-East Asia at first seemed of a piece with its building up of a network of friends and of attempting to deny advantages to the Soviet Union. But Peking was clearly caught off balance by the momentum of events that at first carried it into grow- Friendship the Vietnamese ing rivalry with Vietnam, then added to the provocation. But into a potential confrontation with the Soviet Union which sutstanding differences does not and trade agreements, the U.S. signed a Treaty of Friendship ary served its avowed purpose lessen the deeper suspicion of has resisted the initial Chinese with Vietnam, and then into a of teaching the Vietnamese a 1979 invasion of Vietnam, when enhancing their status as a

The end of this saga is by no means in sight. Vice-Premier American terms has been known as "playing the China card."

Li Xiannian has left open the possibility that China will repeat But the Chinese have pursued other channels. In August measure that the economy can-Chairman Hua Guofeng made not afford but in which China feels its prestige and security State to visit Yugoslavia, are at stake. The repercussions Romania and Iran—all countries of China's conflict with Vietnam

South-East Asia - damaging to both the expatriate Chinese community and to Peking. The Chinese carry much of

port for Pol Pot's regime in Cambodia was at one level backing for Khmer nationalism against the extension of Vietnam's influence in Indochina and and was welcomed as such by other South-East Asian States anxious for an independent Cambodia as a buffer to an expansionist Vietnam. But it was also backing for an inhumane regime that had alien-ated world opinion and which provocative raids across Viet-

nam's frontiers. China clumsily hoped to bring pressure on Vietnam by cutting Instead it pressed Vietnam further into the arms of Comecon and the Soviet it adopted in 1978 towards the Overseas Chinese communities of South-East Asia both gave Vietnam an excuse for rounding on its ethnic Chinese com-munity as a fifth column and aroused anti-Chinese fears among other States, such as Malaysia and Indonesia with

large Chinese communities. China's actions increased Vietnam's irritation with Cambodia. But this was against a background of historic rivalry between the two States. In deciding to take over Cambodia through a lightning invasion in Vietnamese could hardly have expecte that China would suffer this blow to gramme for updating the their prestige without response. Indeed by enlisting Soviet support through the Treaty of it is still a moot point whether China's counter-attack in Febru-

heavier casualties than they had expected and the fighting showed up the inadequacy of expected and its punitive action against their equipment. They failed or from expelling more ethnic their anti-Soviet drive through Vietnami—an enormously costly to get the Vietnamese to with-other channels. In August measure that the economy can-draw mainline divisions from As ag Cambodia which would have carried out a virtual scorched weakened Vietnam's position in earth policy in the parts of Cambodia. Though they demon-

> inforcement of The Vietnamese have since at Cam Ranh Bay, the former American base and strategically

invasion also did not deter the Vietnamese from carrying out another offensive in Cambodia

Vietnam they did occupy, causstrated that the Russians were ing severe damage to the unwilling to rush to the aid of already battered Vietnamese an ally, the war prompted a economy. They flattened four massive Russian-supported re-towns and destroyed an im-Vietnam's portant phosphate mine and a tin mine. They have forced the sufficiency it lacks experience. case, and the continuing con-Vietnamese to maintain their China's ability to gather and frontation between China and allowed Russian ships to dock economy on a war footing and assess intelligence still scenus are still in a strong position to weak. In South-East Asia Deng keep up pressure on Vietnam misjudged the risks that his of helping it to establish a the blame for the escalating important for the Russian fleet, through aiding insurgencies in nuclear capability. Their senior rivalry in Indochina. Their sup-whose nearest home port is Cambodia and Laos. They also whose nearest home port is Cambodia and Laos. They also historic anti-Chinese fears in the ceeding with caution. Vladivostock. The Russians —in the ambivalent way that region. have greatly expanded their South-East Asian states regard

The ambitious nature of their conflict could have.

foreign policy has inevitably raised questions as to whether the Chinese are overstretched in this area as they are in so many others. China has a large China and Vietnam over owner foreign service - Chou En-lai protected it from the worst Islands in which Russian fleet ravages of the Cultural Revolu- movements in the South China tion-but because of China's former emphasis on self- their support of the Victnamese ostentatious tour would arouse national community implies pro-

Though the West stands to

esson. consular staff in Ho Chi Minh Vietnam and China as both gain by continuing Sino-Soviet
The Chinese suffered far City (Saigon) to about 100. The potentially hostile but to be rivalry, it has no wish to see potentially hostile but to be rivalry, it has no wish to see played oil against each other- this carried to the point of war won some merit in South-East with all the unforeseen reper-Asia for standing up to Vietnam, cussions that a Russian-Chinese plenty of potentially dangerous flashpoints in the region—the border, the dispute between Sea now lend visible weight to Vietnam over Indochina. The Chinese will have to learn that

Reduced priority in national scheme

Politbureau.

December).

local military.

THE MILITARY

the military in China has been resolved, at least temporarily, in favour of a low profile and priority to economic develop- against them.

Gang of Four pressures for rapid modernisation of the date. And yet a third reason is army were apparent in articles in the military Press, but these seem to have been firmly put how hampered they would be down. In the list of the "four when up against the sophistimodernisations." China's proeconomy, in contrast to 1977 when it sometimes occupied valid are the threats to teach third place, defence now consistently figures after agricul- future. In the meantime no ture, industry and science and technology.

the Chinese took on a conflict with the most experienced forces in Asia. But there are

various emplanations for this.
One is that when the Chinese see their foreign policy interests threatened they will not stop short of military action even if the apparent odds are

Another is that the Chinese generals forced the conflict Soon after the 1976 fall of the simply to show conclusively that their weaponry was out of that the Chinese have been so cut off that they did not realise cated electronic and optical weapons of the 1970s. It remains to be seen how

Vletnam another lesson in the particular kudos has gone to the military in the February incur-This may sem to contradict sion. It had no effect, or

pressure group in China. officials right down the hier-Since the end of the Cultural archy is of obvious enthusiasm Revolution, when the army was for economic growth. By conbrought in to restore order in trast, the occasional references the vacuum caused by the to the Vietnamese affair seem destruction of other authority, to carry little weight. the party has been gradually re-Vietnam apart, the Chinese placing the army in the national

is a growing tendency to bring satellite.

the army's party committees

are really concerned only with power structure-to the point defence, and for that they are where, on the all-powerful partially prepared. They have civilians outhad a nuclear deterrent since 1964. They are thought to have 50-60 MRBMs (theirCSS-1, with number the active military by two-to-one (three new civilians were added as recently as last a range of 950 km). 50-60 IRBMs (CSS-2, with a range of 2,400 km) an extended-range missile. In the provincial hierarchy, only a handful of military men the CSS-3 (with a range of now hold the vital provincial 6.500 km), not an ICBM but party first secretary post. There powerful enough to launch a

They are also reported by the more and more within the Japanose press to have a CSS-4, civilian party's ambit by with a range of 11,000 km appointing civilian officials to (which puts it in the ICEM the party commissar's job in the class), but they are not known to have tested it.

In the propaganda for So far they are thought to domestic consumption, the have deployed the CSS-1 and the implications of the spring perhaps even a negative one, on mood of the leadership and of CSS-2 along the Sino-Soviet



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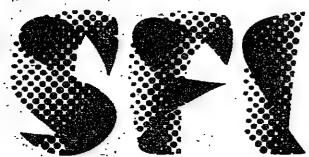


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Modest improvement at best

LIVING STANDARDS

CHINA'S URBAN and rural workers are getting their heftiest wage increases in 20 years. The average wage of workers in State-owned enterprises rose 7 per cent last year, according to statistics released upper during the recent National Party Congress meeting, and further increases are in the pipeline.

Because of Mao's "rational low wage policy" there has been

only one other increase in industrial wages since 1963 and that was for those at the bottom of the scale.

The income of commune members texcluding any additional earnings they might get from marketing the produce of their own backyard plots) was said to have risen by 13.7 per cent. The rise should be much higger this year as a result of the 20 per cent increase in the State procurement price for grain and higher increases for other agricultural products.

emphasis that the leadership is putting on promises of more pie in extract more work is one sign that up to now most Chinese have seen scant personal benefit from so many years of turmoil

Standards of living arc one of 120 yuan. He claimed to be the hardest things to measure saving 30 yuan a month and in any country The Chinese in was hoping to buy a television. the past have discouraged prydraws on work published by Dr. done research on living standards in China), recent figures published by the Chinese and our own inquiries (impressionistic like those of any visitor to China and limited by what the Chinese permit a visitor to

Average

At the NPC meeting, Vicepremier Yu Qiuli said that the average wage of an industrial worker in a State enterprise (the elite of the urban workforce) was 644 Yuan (\$399). This is 54 Yuan a month. The last time the Chinese announced an official figure for the average said it was 60 Yuan a month. The new figure confirms what has long been suspected in the West that in the past, the Chinese have been exaggerating the average level of industrial

Dr. Howe has calculated that, in real terms, the average in- Also, the number of dependants dustrial wage actually fell be-tween 1957 and 1974. This de-port has dropped. of the freeze on wages and of slowly rising prices for some consumer goods, meat, vegecrease in wages in 1977 which of 5-15 years.

resulted in a 10 per cent rise for the lowest 40 per cent of than urban incomes and vary continued until the first in-

workers. Among factories we visited we were given the following average wages: Shoudu Steelworks, 63 Yuan: Anshan Iron and Steel Company, 64 Yuan; Shenyang No. 1 Machine Tool Plant, 60 Yuan: Steam Turbine Plant, Shanghai, 60 Yuan; and the Chengdu Measurement Instruments factory, 55 Yuan.

workers were the same as those reported by other visitors in 1972 and 1973, reflecting an un-changed national pay scale. The present wage rise is being implemented by pushing workers up a grade, so pushing up the average wage. In the past 20 years one reason that the average wage has been declining even in nominal terms is that who retired from the grades were never

A family having to survive on the earnings of only one wage winner is living in China at little more than subsistence level. A 61-year-old attendant working behind the counter of a department store in Chengdu earned 57 Yuan a month. He had a wife in hospital and two

daughters to support. After buying food (in Chengdu this would have been mainly rationed grain and some vegetables), he had little left over for new clothing. He paid 1.96 Yuan a month in rent. He said he just managed to get by and his one luxury was a radio.

But of 10 people we picked But how much are living at random to question at depart-standards improving? The ment stores in Chengdu and Anshan, he was the only one to be the sole wage earner in his family. An elderly work-man with a job in a mining machinery repair shop in Anshan had two daughters as well but a family income of 120 yuan. He claimed to be

A young recently married workman with a job in a packaging factory claimed a household Christopher Howe (one of the income of 100 yuan and said few Western scholars to have he had 200 yuan in the bank. A warden in a great white panda park in the Himalayan foothills who was visiting Chengdu said he earned only 14.50 yuan a month. But in his family of six, his wife earned 20 yuan and a daughter 37 yuan. He claimed to have 200 yuan in the bank.

The striking fact about most of those we spoke to was their relatively high level of savings -either the result of "responding to the State's call to save more" or because there have not been the consumer goods in the shops on which to spend

Thus though average individual urban incomes have only recently started to rise, family incomes seem to have been growing more because more people have been working. A senior official in Shenyang municipality told us that whereas in 1965 there were an average 1.55 people working in a family, there were now 2.34.

A further factor making for higher incomes in some cases has been the reinstatement of bonus payments. In the Shentables and cauteen meals, yang Machine Tool Plant there Almost certainly this decline is an average annual bonus of 20 yuan and a monthly bonus

more from province to province. Wage policy over the last 20 years and one being continued by the present leadership—is to try to diminish the gap in order to get the peasants to

produce more food.
Yu reported to the Congress that last year the per capita income of rural commune. members was 74 Yuan. But this At the Shenyang Machine gives little guide to the wide

The bulk of the 100m people (a tenth of the population) whom Li Xiannian has referred to as undernourished would live, for instance, in the countryside. But at the Wusan commune outside Shenyang we were told that income per head was 190 Yuan of which the equivalent of 70 Yuan was taken in the form of a rice ration of 250 Kg. At a commune near Chengdu the average income was said to be 135 Yuan plus a 310 Kg allocation of rice. Both has barely 1

Apart from the increase in procurement prices, peasants now have more opportunity to increase their incomes by selling farm produce grown of Bangla Desh. on their own vegetable patches and doing spare time work such as silk weaving. The "free markets" that have sprung up In an effort to measure how

far living standards have increased purchases of manu-improved in China, Dr. Howe factured consumer goods. has constructed a personal There is plenty of evidence

budget (food, clothing, fuel, consumer goods, housing) and some welfare items such as health and education that are wholly or partly subsidised. On the basis of this there has been a modest rise in personal con-sumption of about 1.7 per cent. a year from 1952-74.

Grain consumption per head has barely risen — indeed the level of grain imports has been rising significantly to meet the additional demand- of population growth-and is only about 25 per cent above that

Housing certainly has not kept pace with population growth. In and around Chengdu there are slums comparable to in Shanghai, Shenyang and other cities over the last year are sign of the increasing numbers of peasants who are bringing vegetables to sell privately in local urban areas. stuffs such as meat, oil, fish and

if only they can get them. The manager of the No. 1 Department Store in the Nanking Road in Shanghai, one of the larger stores in probably China's most fashion-conscious town (where girls pay 2.50 Yuan for a hair perm and enviously eye the smart shoes being packed for export), points to a dramatic rise in throoper in the dramatic rise in turnover in the

last three years.
Sales increased from 138m
Yuan in 1977 to 163m Yuan in
1978 and a projected 200m Yuan
this year. He says he would sell
far more goods if supplies were far more goods if supplies were

which in turn has a monthly quota for its staff of these sought-after items. The better

Tool Plant the wages being paid differences in living standards. consumption index weighted that the Chinese are anxious brands of shirfs, watches and to each of the eight grades of The bulk of the 100m people for items in the household to buy more consumer goods—radios are snapped up quickly

CHINA IV

The manager denies that these shortages lead to a black market Almost certainly they do, and almost certainly as well, this pent-up consumer demand which has been suppressed for so long, partly through fear that conspicuous consumption risked political damnation will generate increasing inflation.

Unless prices can be held in check the Chinese will find both their wage increases and their savings hibbled into by inflation.

Largely in the hope of pre-venting this—and the political backlash that would accompany unlimited.

But he is allocated only 300400 television sets a month
(retail prices range from 2,900
Yuan for a 20-inch imported
colour set to 500 Yuan for a
12-inch Chinese-made black-andwhite one).

For televisions, bicycles, sewing machines and gym shoes a
complicated rationing system is
in force. Potential purchasers
have to have a certificate of
authority from their work place
which in turn has a monthly

venting this—and the political
backlash that would accompany
it—the leadership is encouraging the expansion of light industry. Indeed, to judge from
a recent commentary in the
Chinese Press, after the slow
industrial growth of the first
half of 1979, the government is
looking to a consumer-led
recovery to bring the industrial
growth rate for the year up to
the planned 8 per cent. The approved of that.

A generation lost

EDUCATION

LISTEN TO the tale of Mrs. Tao Duanyu. She is Director of Education in the province of Sichuan—a post which, since the province has a population of 98m, would entitle her to Ministerial rank in almost any other part of the world.

She was a member of the Communist underground movement in Hubel province in the 1930s. She then joined the 8th Route Army and went to Yeuan, which Mao had made his headquarters in 1937. She won distinction there for running a school whose success was praised by the propaganda department of the Central Committee of the Communist Party.

After the war she helped build up the education system of Sichuan. This was the giorious period as she remembers it—not so glorious we would think, as most of the see "the merits of the socialist not to learn. Like many Chinese of the older generation, she retains a wide knowledge of and deep pride in China's culture and history.

In 1965 came the Cultural Revolution and ten years of upheaval. Education officials tuals." She herself was arrested ss a "close follower of the is difficult to think of any com-revisionists," made to do parable post-war situation in manual labour and then sent she was put in a concentration camp as a counter-revolutionary, confined to a cell and allowed no exercise apart from walking in file three times a day to collect her meals.

In 1971 she was released. But the turmoil in Sichuan did

not end then. Many feel the is desperately short of qualified would be unacceptable was trying to gain ascendancy, and 1978, during the power struggles at the time of Chairone of the worst periods was in 1974 after Madame Mao had urged primary school students to revolt against their teachers: following a complaint by a Peking high shoool student that she had been harshly treated by

a teacher. As Mrs. Tao tells it, many school buildings were damaged and some burnt in the faction fighting. Equipment and books were destroyed. From about 1967 until 1971 all schools taking children above middle grade (from 13 to 17 years, though most children leave at 15) were closed. In the middle grade the emphasis was on practical work. "Physics was three machines and a pump, tractors, diesel engines and an electrical machine. The teaching was modelled around these If a student could drive a books then in use in schools tractor he passed." Teachers were Chinese translations of felt it was impossible to teach Stalinist texts-when you could and students were encouraged

Sichuan was one of the provinces worst affected by the Cultural Revolution — though there does not seem to have been the same large-scale recruitment of peasants and workers for teaching posts which has left the even greater were imprisoned and teachers burden in some parts of China denounced as "stinking intellec- of a leaden teaching force that needs to be educated itself. It which a country - least of all to work on a farm. Afterwards a country of 1bn people which there followed a period in which can lay claim to probably the longest tradition of education of any civilisation — has so destroyed the structure of its school and university system. The consequences are that

China has a "lost generation" of restless, semi-literate youth for whom there is no slot in the social and economic system who are relegated the countryside. It

worst years in the province were teachers, with the repercussions. Europe or the U.S. today.

1974, when the Gang of Four that this will have on future. At a primary school in generations of teachers. It is Sichuan funder Mrs. Tao's conshort of skilled workers, trol), the first-year students managers and technicians with were the first class to have man Mao's death. For teachers the basis of knowledge to received the new unified text-one of the worst periods was master and diffuse the foreign book on which the reformed technology it wants to absorb. ... Chinese education system is

> in the country, officials in the behind, their backs as the office of the Vice President told teacher spoke. us that they hoped that, by 1986/81 university standards would be restored to the level teachers were recruited during the Cultural Revolution and

in the country—only resumed work last year. Its senior members told us it had been disradicals said, capitalist you will be." Peking's Institute of Economic

facing after its long winter. With the touching but almost child-like enthusiasm of academics desperate for knowledge from which they had been long deprived we were questioned about what had been happening in the world outside -monetarism, Friedman, the European Community, the European Monetary System.

Mao had a point, however, when he launched the Cultural Revolution — in that Chinese education was too formalistic and too detached from the practicalities of life. The irony ted now is that the pendulum has It swung back to a formalism that

At Fudan University, the best being based. But the children in Shanghai and one of the best? sat bolt upright with their hands

At Fudan University the lecturer in the English department read his students a text and of 1966. That is almost certainly then said." Here are some queswishful thinking. Entrance tions to see how well you can standards are still much lower, temember." The emphasis is on The university course is four learning by rote on preparing vears compared with five before texts that can be rolled out the Cultural Revolution. In the during the increasing number of English faculty about half the examinations, and un stream-Competition to get into uni-

standard as a second-year versity entrance exam last year, university student before the of whom 292,000 got places, Cultural Revolution.

The Academy of Agricultural the hope of getting high marks sciences one of the focal and a good job when they points of agricultural research graduate. The student unrest of the country only resumed the last year which erupted on Democracy Wall in Peking or bers told us it had been dis-solved on the grounds that the country should rely on its universities but from the unem-peasants alone and not its ployed youth desperate to re-intellectuals. The more turn from the countryside, Industry tries to make up for the poor quality of its student intake by running training intake by running training courses in schools attached to Research was also just resur- factories. Mrs. Tao talks of creating new vocational col-leges in Sichuan. The Chinese are still anxious to send students abroad for higher education—though the numbers have been trimmed back from

> Deng is certainly anxious to see more intellectual ferment in China and was saying so openly in 1975. Mrs. Tao would agree. But intellectual values have been buried for a long time in China and it will probably take just as long before a new generation regains them.

the large figures being men-

tioned last year.

Reduced priority

border and only a few, if any, of the CSS-3s. More important is whether the Chinese nuclear is whether the Chinese nuclear capability would survive a Soviet first strike; the CSS-1 is vulnerable and slow to launch and the CSS-2, while it can be kept fuelled and covered, still seems to rely on dispersal and mobility for protection.

More likely than a nuclear attack would be a lightning overland strike by the Soviet Union which they are poorly equipped to handle. Chinese forces are large—the army is more than 3m strong—but they have few armoured personnel carriers or trucks, and normally go on foot or by train. They lack modern anti-tank weapons and their main tank, the T59, is based on a Russian design of the 1950s. Their aircraft are chiefly MG 17s and 19s, of the same date, plus a few MiG 21s and Chinese-built

In recent years the Chinese are thought to have reduced their defence spending simply their defence spending simply because they no longer saw any point in continuing to produce obsolete weapons. However, this year saw a small change as at the National People's Congress, the Minister of Finance Zhang Zhingfu said in his budget speech that the his budget speech that the allocation to defence would rise to 20bn Yuan (17.8 per cent of the total budget) because of the

Vietnam incursion. While observers believe that defence spending hidden in the be concealed on the ground.

heavy industry budget and elsewhere, the most important factor for modernising Chinese forces is the ration they will be concealed on the ground.

Low-key discussions on the sale of the Harrier have continued, with the Chinese radius forces is the ration they will get of Peking's foreign exchange resources, and this was not

the obvious gaps in hardware from abroad. It is clearly not possible to do a full-scale reequipment this way; it might cost up to \$300bn and the available suppliers could not produce the quantity required. The U.S. has said already that it will not sell arms to China, as has West Germany (because of Soviet proximity), which leaves Britain and France, with Italy as a

possibility. Chinese military delegations have been coming to Britain with increasing frequency since Marshal of the RAF Sir Neil Cameron went to China last year and made his famous remark about the common enemy in Moscow. One of the most important was the 40-strong aircraft mission last autumn, and the most specifically military) was the group led by Vice-Premier the group led by Vice-Premier (and now Polithureau member) Wang Zhen, who showed parti-cular interest in the Harrier jump-jet fighter.

Useful

The Harrier would be parti-cularly useful to the Chinese because it requires no airstrips. Because of its limited range, it is viewed as a weapon of defence rather than attack. In the Chinese forces it would probably function as a patrol aircraft along the Sino-Soviet

alreraft and showing increasing interest in production facilities. This is common to all their For Chinese policy is in effect trade talks at present, in which

to shelve its conventional domest they are attempting to buy tic arms industry and to plug technology rather than equiptine obvious gaps in hardware ment in order to save foreign

The Chinese also appear to be interested in marine diesel engines, anti-tank missiles, radar equipment, improvements to their own tanks (they are thought to have a new tank design in mind) and a host of other items, such as night vision equipment, that their visiting missions have seen and com-mented upon during visits to

No decisions have been taken yet by the Chinese because the leadership is still hammering out its priorities, but individual missions appear at last to be drawing up short lists, with a view to buying small quantities of equipment that they would like to see tried out. No agree-ments seem likely before the autumn.
The same timetable probably

also applies to French arms sales to China Originally discussed by the Prime Minister M. Raymond Barre, on his visit to Peking in January, 1978, these are expected to include Hot and Milan anti-tank missiles as well as anti-aircraft missiles, worth an estimated \$350m. Like other equipment deals, these have been frozen for the last six months.

Earlier, the Chinese showed interest in the Mirage 2000 but. like the British Government, the French told Peking that they were prepared to supply defen-

If and when the French and British deals materialise, their size in relation to contracts for other industrial equipment will be a strong indication of where China's true priorities lie-

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Strategy for the next three years

ALMOST 30 years have passed per cent in 1978 over the pre-

The main problem now facing us is that our agricultural erpansion cannot as yel heep up with the needs of industrial development, and at times cannot even keep up with the needs of a growing population. Many important products of the light and textile industries are insufficient in quantity, poor in quality ore not enough marketable goods.—Chairman Hua Guojeng.

Capital construction is too large in scale and spread over too many projects for the country's financial and material resources at present, and returns from investment are very un- and to give its urban workers satisfactory. — Zhang Jingfu, an improved and more varied Minister of Finance.

shocking conjusion and waste in what it was 20 years agn. Vice-some production units and in Premier Li Xiannian admitted some organisations not engaged an production. Zhang Jinglu. Enterprises which turn out low-quality, high-cost, unwanted goods and show a deficit must undergo a shake-up. Some should cease operation, while cline in State purchases of beef, others may be amalgamated, or change over to other products.— Vice-Premier Yu Qiuli, Head of the State Planning Commission.

Twenty-jour per cent of our State industrial enterprises are of agricultural growth means run at varining degrees of loss.— Chairman Hua Guofeng. commodities to export (buyers SPEAKERS at the National at this year's Canton fair found People's Congress in June had a shortage of supplies) and

plenty of good things to say about the Chinese economy—not least about the way it has been run during the past two years since the present leadership has been in full control. But the novel feature, as the above exhortation to still greater quotations show, was that they also told us what was wrong. living standards and more con-and often in blunter language sumer goods if they work than that used by most Western

The new leadership has now given Itself three years to put is also the most important test things right-three years of readjustment, restructuring, consolidation and improvement" starting from January 1979—in which in Western terms it will accept deflationary policies of

inclicient Soviet-style system of work than now exists. vestment are highest and those who are the most efficient.

figures, per capita incomes of high and should understand the Within the State b commune members rose by 13.7 country's difficulties.

average of 24.8 per cent.

Vice-Premier Yu Qiuli claimed in his speech to the Congress that this amounted to the largest increase in farm prices since independence 30 years ago. It is being backed by a substantial increase in investment in agriculture which will absorb 14 per cent of the capital construction and limited in variety, so there budget as compared with 10.7 per cent last year.

Food

As Hua's speech implied, China needs to grow more food to feed its growing population diet. Per capita grain consump-In management, there is tion is only marginally above recently that 100m people were still underfed

In Guandons province, the southern province bardering Hong Kong, the official Press recently reported a sharp deducks, eggs and other subsidiary farm products since 1965 and said that supplies to

Canton were down. At the same time the lagging that there are fewer agricultural that the expansion of light industry is curtailed by an insufficient flow of raw materials.

In effect, the deal being proposed to China's 800m peasants, weary from years of turmoil and effort, is an offer of higher harder and produce more. The success of the deal is central to the whole economic strategy. It of Peking's new reliance on the price mechanism to get higher yleids. The radicals within the party are still denouncing this use of material incentives.

the implied increase in trade In that time the leadership between countryside and town hopes to cut back some of the will require a far more efficient surplus fat from the country's distribution and transport net-

management, direct funds to • Higher wages for industrial

The bait of higher incomes is on where the bottlenecks have posefully. The resistance of the Maoist radicals to discriminatory cent this year. bonuses awarded on merit is far Overhauling the bureaucrae stronger in industry than it is

in the countryside. Priority in the allocation of for the vast array of organisathis is to ensure that sufficient centralisation there isn't, and consumer goods are available to where there should be decen-sook up the growth in incomes tralisation. it's missing." faster return on investment and lapping responsibilities

greater potential for exports. As a result light industry and none of whose powers of deci-textiles are to get first call on sion are clearly defined. supplies of raw materials and, more importantly, of fuel and power. Their import allocation for supplies of raw material prises more independence in and semi-processed goods has management and greater con-heen raised by 17 per cent this trol over their funds; encourag-

Surprisingly, the proportion State capital investment going to light industry has been raised only marginally from 5.4 per cent in 1978 to 5.8 per cent 1979. But there are likely to larger increases in provincial budgets. However the A stronger foreign trade small increase in the State sector. Foreign trade as a proallocation does reflect the constraints in expanding light ping from an already small 5.2 industry when the bulk of per cent in 1959 to only 3.7 per managers and engineers have cent in 1978. The intention is to been trained in heavy industry.

Decision

• The deliberate decision to allow some stack in the economy. One result of the rapid recovery of the last two years in which industry recorded well above average growth rates of 13 and 14 per cent-was a widespread over-

shortages of building materials, putting more muscle into infuel and power were unnecessarily used to produce goods looking to new avenues of comthat were not wanted quality Pensation trade, joint ventures suffered as factories attempted and tourism to achieve it. se of material incentives. to achieve their production Beyond this difficulty is that targets and the rail network was congested. In short, there was a great deal of waste in an ill-co-ordinated programme.

Supporting the high growth rates was an increase in the State's capital construction sectors where the returns on in workers and bigger bonuses for budget, by 34 per cent over 1977 extract increased productivity. Average wages for smployees is being held practically constructed in State industries rose by 3 stant at 40 in Yuan. Yu Qiull's will depend heavily on the industry. The key strands of per cent in 1978 over 1977 to speech suggests that nationwide success of offshore oil policy during these three years 644 Yuan, and fugther increases there may even be a reduction exploration.

This stabilisation programme in construction expenditure. increasing agricultural in- implied that workers should not when local budgets and other

Within the State budget, the · highest allocations are focused December and made a Vice-

since the founding of the vious year to 73.9 years. During also an attempt to prod a work been greatest: coal, e.d. electronic state of the current year the State proforce with a long record of good tricity, transport and building have achieved for less than we should have.—Chairman Hua being raised by 20 per cept and shoddy performance into share of heavy industry in for other farm products by an working herder and more purious timestment is being cut from 54.7 per cent in 1978 to 46.8 per

> and establishing new methods of accountability and control funds and raw materials to tions and enterprises that fall light rather than heavy in- under the State. Zhang Jinglu dustry. The main purpose of said: "Where there should be and so produce a tangible Chinese officials also testify to increase in living standards, the jealous competition between Light industry also offers a ministries and to the over-

> > central and local authorities

more decentralisation to the provinces: allowing State entering the use of market concepts as a more rational base for decision making: using hanking system to exert lighter financial control: and establish-

semi-autonomous

ing

new

organisations to cut through red lape. portion of GNP has been slipping from an already small 5.2 per cent in 1959 to only 3.7 per reverse that trend. Although there has been a shift back inwards emphasising self-

sufficiency this year after the headlong plunge towards imports of foreign technology miliated by Deng last year-as a short cut to faster growth -China is still looking towards substantial increase in plant imnorts.

The value of imports is stretching of capacity.

Construction projects were 33 per cent to \$14.3bm. At the left half-finished because of same time the government is creasing export earnings and

Exports are planned to increase 14.7 per cent over last year to \$11.1bn. This still leaves a substantial trade deficit, part of which will be covered by increased borrowing. Western experts reckon that Peking is prepared for a ceiling

But what caught the leadership pattern of erratic growth—a the pace at which it can deof \$25.530bn of outstanding

more of balance was the speed familiar stop-go crisis—that has velop its economic potential. to 39.5bn Yuan. This year it debt by 1985. But, how far it

is largely the work of Chen Yun, the 79-year-old official brought back to high office in

SELECTED ECONOMIC INDICATORS 1972 1973 1974 1975 ~(590) GNP (1977 Shn) 1.004 (975) Per capita GNP (in 1977 S) Agricultural production index Total grain (m tonnes) Cottes (m 19nnes) 1.3 1.6 (2.0)Industrial production index 349 385 237.2 327.4 353.6 376.5 398.1 410.6 479.6 488.0 546.6 11.8 28.2 36.7 43.1 54.8 65.8 74.3 83.6 90.3 12.2 17.8 21.0 22.0 25.0 21.0 24.0 21.0 24.0 16.3 26.6 31.0 38.1 41.0 37.3 47.1 49.3 56.2 Coal (m tonnes) (618)B3.6 P0.3 (94) 21.0 24.0 (23.7) 49.3 56.2 (55.6) 1.5 5.4 (104) 0.4 1.3 Cemcot (m tonnes)

Source: CIA Economic indicators and China's State Statistical Bureau. The American figures are preliminary. The Chinese figures are in parentheses. *The Chinese figure for GNP is based on a statement by the Foreign Trade Ministry to the FT delegation that foreign trade accounted for 3.7 per cent of China's GNP in 1978. The Chinese authorities have not issued official figures for China's

premier in June with status at which He carried through a similar possibilities of immediate programme of restructuring the growth and was running up nomy and checking inflation judged was too slow a pace of change. The overstraining of the economy in the last two years and the recent increases in incomes for peasants and

Trouble

dangers of inflation.

By December last year it was clear that the ambitious plans announced by Chairman Hua in February 1978 for completing 120 major capital projects by 1985 as a step towards transthe century were running into ning by assault that led to Mao's Great Leap Forward. So 100 was Deng's apparent faith in the power of foreign techto achieve rapid nology modernisation.

The most foreseeable con-By December China's prospective plant purchases from 1974. abroad added up to about \$40bn.

probably second only to Deng, economy had exhausted the against shortages of fuel, power, useful in the early 1950s before Mao raw materials and rail transport Bosic Guide (Elek Books) shows got impatient with what he that resulted in high-cost, low- how far China has progressed quality production.

It was also clear that in spite base in the years since of the first increase in wages in independence (1952 is taken as workers have again renewed the another Herculean effort to meet from the worst effects of the leadership.

plan for crowding into the next cight years the same volume of capital investment that China had made in the previous 28. The best hope for the new forming China into a major strategy that is being put for-industrial power by the end of ward now is that its objectives are more modest and that it trouble. Hua's approach was responds to the long-term wish goods, reminiscent of the same plan- of a great many Chinese for Again higher living standards.

was clear that the economy was slowing down considerably. Industrial output grew by 4.1 per cent in the first half of 1979 as compared with the same straint to emerge was that period in 1978. This was a China had not the foreign third of the rate of the previous exchange to pay for the plant two years and well below the imports it was contemplating, trend rate of 10 per cent achieved between 1952 and

The two years fit into the

over the past 30 years. The immediate table, drawn mainly from Dr. running up Christopher Howe's immensely in establishing an industrial

years China's industrial work- the base year because it was then force was not prepared for that the economy had recovered unrealistic targets set by the war).

The June meeting of the do not reflect the poor quality National People's Congress of much of China's industrial effectively abandoned Hua's output, the slowness by comficant exporter of manufactured

Even before the Congress it

However, the crude statistics purison with other developing countries with which it has absorbed modern technology more farm produce.
outside certain specialist sectors Second. China has a long outside certain specialist sectors such as nuclear or missile development, or the advances it still has to make to become a signi-

Against this, the statistics also do not reflect that China has made greater strides than virtually any developing towards reducing country absolute poverty and equalising the distribution of wealth. It is by no means clear that

China can achieve such a massive turnabout as is implied in its programme of "readjustwithin the short space of three years, nor what growth rate it can sustain beyond that. Three basic constraints limit

the expanding marked China's development First, with only a tenth of its land surface is cultivable (and there is no easy way that China Chino's Economy: A can accelerate its growth in agriculture. Increases in output will depend on the slow process of putting more land under irrigation, of developing new high yield seeds, and of learning to apply fertilisers more scientifically.

Foreign experts believe that China will be lucky to obtain an annual 3 per cent increase in production which, with the country's population growing at about 1.5 per cent, does not leave much leeway for raising living standards and exporting

uphill haul to develop a fuel and power system capable of sustaining industrial growth of 8-10 per cent.

Finally, China is a land of a billion people and vast spaces. Since independence the Communists have found no satisfactory way of administering it that both retains central control and leaves room for local

The traumas of the Cultural Revolution have left a bureaucracy nervous of innovation and timid to take decisions. The old men now at the top may wish to strike out bravely, but that is not the inclination of officials below them.

D.H.

Increasing autonomy for local authorities

PLANNING

CHINA FACES daunting plan-ning difficulties because of its its intractable problems, its inadequate communications, and its shortage of trained planuers resulting from long time only one five year plan, the first (whose targets were not this centralisation is that published till the plan period relatively small problems conwas half over) has been satisfactorily completed. The second plan was overturned by Mao's up State Council time. Great Leap Forward: the third by the Cultural Revolution, the fourth by the Gaug of Four and the fifth—now in progress—has been converted to "three years of readjustment" to clear up the imbalances which are the legacy of inadequate planning

in the past.
The crucial importance of the economy has meant that ultimate decisions have been taken above the planning structure, by the party, presumably at Politburcau level. Hence the place has always been subject the Chinese economy has grown. to political interference. Today, to try to get the planning right,
 the leadership has strengthened the economic element at the highest party level. The former leading planner of the 1980s, Chen Yun, was appointed to the key party post of vice-chairman last December, and other senior economic figures were promoted to the Politbureau at the same

Questions

Almost certainly it is this body, not the State Planning Commission, which is nominally in charge of planning, that settles specific questions such as the construction of large new plant and the role of foreign well as the general principle of Such is the cost of these proeconomic policy. In the past jects and their importance that
wear or so senior traderic interpretations.

which every enterprise reports this year's vincial, municipal, county) to new rolling mills for the steel the State Planning Commission, complex at Wuhan from West has meant that numerous probat State Council (cabinet) level. be i Only at State Council meetings tion: priority of political disruption. do ministers responsible for To help solve the high-level For 30 years it has had a the planning agencies meet liaison problem the leadership planned economy, yet in the regularly with the economic set up a new body after the time only one five year plan, the ministers. The disadvantage of National People's Congress in

This, and the numerous levels through which requests for a decision have to pass, have obviously slowed down the responsiveness of the enterprises to the country's needs. The Chengdu Measuring Instru-ments and Cutting Edge Plant, for instance, has divulged that it takes about a year to establish through a series of bureaus that a product is not meeting customers' requirements.

mainly on the basis of one-year planning, at a long term rate of 6 per cent as compared with a 2 per cent increase in popula-tion. However, the leaders in Peking now admit freely it could have done much better. For the first time since 1959 Peking this year published a critical assessment of develop-ment so far and a detailed plan for the current year.

Peking also announced it was working on the next five year plan. 1981-85. It is now recognised that the qualitative leap needed by the Chinese economy can only be brought about by medium-term if not long-term plaening, with investment in substantial, often foreign, plant

year or so senior academic they have to be centrally plan- the country's enterprises are economists have also played a ned and controlled. Further- organised in a pyramid with the The planning system proper output have to be clearly fore the spex. In the July-September to period, managements forward also operates at a high (but seen. The outburst of un-Government not party) level, scheduled capital construction

the strata of government-pro- ning error was the purchase of complex at Wuhan from West Germany and Japan for which the power supply is now seen to be inadequate for full opera-

> National People's Congress in June, the Economic and Finance commission. This is intended to co-ordinate the work of the long-term planning body, the Planning Commission, of the short-term planners in the State Economic Commission (who run China's monthly plans), of the Capital Construction Commis-sion, the People's Bank (China's domestic bank) and the Bank of China (its foreign arm). Chen Yun is the chairman of the new commission, Li Xiannian, one of China's top halfdozen leaders and a former Minister of Finance, is the viceinclude the ministers in charge of the other commissions.

· Although China's medium and long-term planning has not provided the necessary constructive guidance, the short-term plan-ning system has performed reasonably well, in spite of drastic political disruptions. This is because in the 1950s the Chinese took over from the Russians the central organisation of "Material balances" under which the Peking planners annually match supply and demand of major items such as grain, fuel and raw materials, while planners lower down the scale work out the balance for less important commodities, and allocate to individual factories and communes their targets for the coming period. Having got this more or less right initially, whose construction will be the changes needed from year technology and investment, as spread over a number of years, to year have been only a matter

The system works as follows: the country's enterprises are more their requirements and ministries and commissions at their plan for raw material The vertical hierarchy under last year, which partly caused consumption and product output

only to its controlling ministry, shows the inadequacy of planning level to which they and planning departments the planning mechanism. A are subordinate, and these are (which exist all the way down good example of a specific plan-forwarded up the hierarchy to

After detailed discussions between enterprises and planners, requirements and targets are adjusted. There will be shortfalls and surpluses at the provincial level, and these are balanced by the planners in Peking. Enterprises are supto report back every month to ensure that output is as planned and to receive an adjusted plan, but the delays at this stage almost certainly mean that overproduction and shortages ensue.

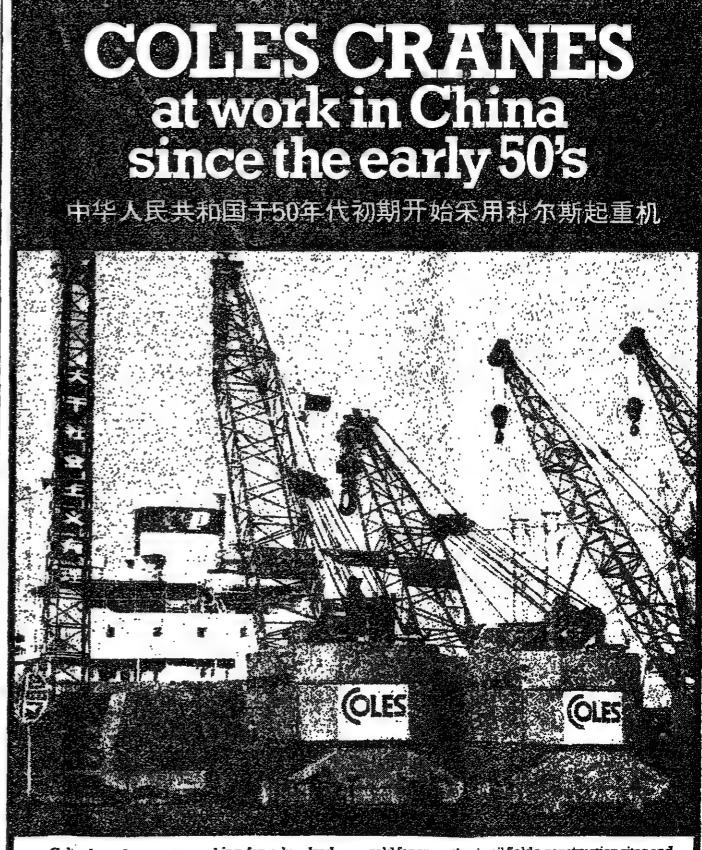
This system means that almost every item produced in China enters into someone's plan. To simplify these complex arrangements, since the beginning of this year the leadership has started to allow enterprises to market their own products outside the plan, permitting them to find their own customers and to keep a proportion of the profits. There has been widespread discussion of the role of the market economy, and while much of it has revolved round its place as a stimulus to production, it has obvious additional benefits in cutting down local planning work and attendant delays.

raw materials and foreign trade. This, he said, would cut out the are "unwieldly, overlapping and inefficient." More daringly, in Sichuan 100 enterprises were singled out for an experiment in greater self management and customers, even foreign ones.

This has reportedly pushed their output increase in the first half of 1979 well ahead of the provincial average. This success will almost certainly reinforce Peking's intention to strengthen the central planning of major projects but at the same time allow a grass-roots market economy that will reduce the

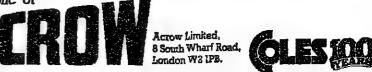
In his report to the NPC, Chairman Hua said that local authorities should be given more autonomy in planning, as well as in construction, finance, many administrative organs that

overall planning burden.



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A billion mouths to feed

AGRICULTURE

THE GROWTH of agriculture 'and the need to achieve a sur-plus of food over population is China's most basic economic problem. It is compounded by the fact that agriculture supplies a high proportion of the raw materials for light industry. which in turn provides about 40 per cent of the exports.

The growth of heavy industry also depends on agriculture since it has to feed an evergrowing urban population; and the raising of the standard of living is dependent on it since, for huge numbers of the rural which s population. a better life still certain means a better diet rather than more consumer hardware.

increase to only 1 per cent, they currently admit to a population figure of 958m (the statistic published at the recent National grounds that the figure is well over Ibn.

Until recently, the increase control measures. rate was probably at least 2 per cent, which is not much less Modest than the long-run trend of 2.2.5 per cent annual increase in grain production. Hence the extreme difficulty the leaderthat most elementary factor in a rising standard of living: feeding the people better.

However, the leadership officially remains optimistic, but while it has abandoned the extravagant industrial targets it put out last year, it continues to put forward the 1985 planned grain output figure of 400m tons. This will require a 4 per cent increase annually in ton-

was said at the recent Congress

to be 304.75m tons, 7.8 per cent up on the previous year. If this figure is correct, it is a healthy increase and makes up for the bad years of 1975-77. when production stagnated owing to bad weather.

However, it has not put the Chinese much ahead; an annual

2.5 per cent increase since 1974 would have given them 303m tons, so they are barely ahead of the long-term trend. While there is no reason to think that the Chinese have misrenrethe Chinese have misrepresented the total, they have revised the figure upwards several times since last autumn, which suggests at least an uncertain statistical reporting

Cautiously, China's planners While the Chinese claim to have set a target for the curhave reduced the population rent year of 312m tons, just 2.6 increase to only 1 per cent, they per cent above the figure for last year. If they can genuinely keep the population growth at 1 per cent, it should provide People's Congress, minus the some scope for economic figure for the "province" of growth, but many observers till believe they have some way graphers believe on good to go before they can induce to go before they can induce the peasants to accept small families and rigorous birth

In fact the prospects for the current year are modest. In Sichuan only 30 per cent of the ship faces in trying to provide rice could be transplanted owing to drought. In the north China plain the wheat was planted late in very dry weather. Good spring rain brought over-rapid growth and problems such as small ears and

aphid infestation.
In central China the crops were set back owing to the cold. wet spring, and in some places rice had to be replaced by wheat, though this damage and the denigration of the fields are small and often ter-

unlikely to attain. weather and a late autumn.
Grain production for 1978 Irrigation will have been affected since the drought last year meant that reservoir levels were low.

Most tellingly, however, the crops in the north-east, which last year produced a good slice of the big rise from 282m tons in 1977, are unlikely to repeat the jump since the late, cold spring has affected the spring

Peking's biggest worry is where future growth is to come China's well-watered, fertile land always has been intensively cultivated, and while modern methods such as powered irrigation and chemical fertilisers have made some difference, the limits on what can be achieved readily may be in sight already.

There is very little worth-while new land that can be brought into cultivation. The density of habitation is already very high; in the Sichuan basin (admittedly the most densely-populated agricultural area of Chinal the average amount of farmland per head is 1.2 mu (6 mu=1 acre).

While China now has reasonto use it properly is lacking. At communes outside Shenyang and Chengdu the peasants com-plained that it made the crops grow too quickly, with ears that were too small. Both communes would have liked more organic

to supply.

The destruction of research

nage which the country seems could be repaired by good academic experts during the years of the Gang of Four has put the development of a good agricultural extension service back many years. While there is an elementary system of spreading agricultural techniques to the countryside from the academic research centres, no experts have been trained

since the middle 1960s. Development of improved seed strains has been via selec-tion rather than breeding, and while the post Mao attitudes to foreign techniques may mean the import of expertise and seed strains, it still takes some years to adapt these to Chinese con-ditions and climate.

Irrigation

More irrigation is one key to increased production, but the problem here is the difficulty of bringing water to the much more inaccessible areas remaining dry. Then there is the competition between the needs of the hydro-electric industry and agriculture-further offtake of water for farming would hamper power generation even more than it already does in dry spells.

In the north China plain, able supplies of chemical fertili- perennially dry but nonetheless ser (8.7m tons produced last a vital wheat-growing area, the year, in terms of nutrient consinking of tube wells has tent) the experience required lowered the water table. There is some doubt about the capacity of rainfall and other water seepage to replace it, while unwise irrigation without adequate drainage has caused

alkalinisation of the soil. Mechanisation is another development that could help. fertiliser.

These complaints are typical although the government wisely of peasant communities that are not using chemicals correctly.

To do so requires knowledge attempt to mechanise wholesale. In one locality, in the open plains of the north east. U.S. used most successfully. Elsewhere in China, though the

farm equipment to help them harvest one crop and put in another as fast as possible to step up multiple cropping. What they have at present is either too unreliable or too complicated. Tractors large and small seem to be used mainly for transport, while rice trans-planters, each of which is manned by three people, are far from fully automated.

these constraints accounts for the redirection of economic policy this year towards bigger investment in agriculture and more incentives for the peasants. Last December, confronted with a rapidly overexpanding economy, the central committee revised its ambitious development plans in favour of a new priority for agriculture and light industry, much of which depends on agricultural



Traditional farming in Sichuan province. Despite lack of modern machinery China produces most of its own food.

What the communes need is

Rising government alarm at

raw materials. The leadership decided to

raced and machinery is not raise the prices paid to the on its word. Hence this logical bigger schemes such as its propeasants for produce, and cut but unpopular policy may take the prices of farm inputs. This some time to put into effect.

was swiftly followed by the anternouncement of a new policy to pects for raising sideline develop key areas selectively, production, particularly in the and a growing stress on sideline livestock area. China last year claimed an inventory of 301m The "key areas" policy in target of one pig for every volves switching crops to land peasant. Official prices paid to most suited to them, for the peasant have all gone up instance cotton to the best markets means that prices can best wheat land. But it is not float freely. pigs, still less than half the

easy to persuade peasants to. How far China can go in this In the meantime it is no give up growing food for cash direction by relying on peasant wonder that one of China's main crops even when they are initiative and keeping livestock campaigns is pressing for promised adequate rations fed mainly on household scraps rigorous population control. simply because in hungry years remains to be seen, however, the government has fallen down. Peking clearly is thinking of

posed development of the grass lands in western China for improved animal hosbandry. One expert view of China's agriculture is that it may be as agriculture is that it may be as much as ten years before there is significant progress in growth. The training of a new generation of agricultural scientists, the development of experience in seed breeding

and the proper use of fer-tilisers, and the construction of costly and difficult water control will take a long time to develop.

Community role restored

BANKING

THE People's Bank of Chins. Peking's central bank and by far its most important banking organisation, has begun to resume and even expand the part it played in managing the economy before the disruptive era of the Gang of Four. As greater - responsibility for savings, investment and for overseeing the fulfilment of contracts between enterprises, on which the whole interlocking economic system rests, will fall on local bank managers. The powers of the Bank are being strengthened to ensure that if can carry out these functions

production to supplement the

basic grain allowance.

The People's Bank began its rehabilitation at an important banking conference last February. The conference report commented with devastating truth that "the efficiency of our banks lags behind that of the 17-year period preceding the Cultural Revolution and trails far behind banks in other parts of the world." The conference, summoned to instruct bank managers in how to play a positive role in the "readjustment" policy, announced fighter rules for loans, more dis-ciplinary powers for managers to enforce banking regulations and higher interest rates from.

April 1 this year to attract more

Under the Gang of Four, the Bank's authority was completely undermined, as was that of all the economically-minded party and government leaders. According to sources in the Bank, the radical Gang attacked the deposit business by saying that anyone who put money in the bank should not get interest as it was part of capitalist exploitation (though interest was never officially abolished). Furthermore the Gang said that those who put too much money in the bank would inevitably become bourgeois, and added that strict terms for loans would lead to capitalism. Fear of in that period of arbitrary accu-sation and arrest affected sav-

plays a part in the formation of the state plan and the budget. Planning in China is in physical rather than monetary terms, and the money supply is decided to suit the planned supply of goods, according to the system of material balances used in planning. The Bank is consulted to ensure that the currency in circulation is adjusted to the expected level.

ment the People's Bank sees itself as having three means of Sconomic management The first is attracting deposits in increase the funds available for

losis (and incidentally reduce the likelihood of infistion). These have always been one of the Bank's main sources of funds, as personal bayings get biggs, every year. The fold the leadership in Peking intro-duces more decentralisation. As amount of savings at the end ments to eneck on the efficiency of 1978, according to sources in the particular enterprise. the Bank was roughly 15 or 16. The distribution of loans is times that of 1952. Total narmally dictated by the needs accounts now number Sam of the state plan but the From April 1 this year the People's Bank has raised interest raise substantially to

over 5 per cent per annum for five year deposits and just moder a per cent for one year. Presumably to attract foreign depositors. Overseas Chinese get slightly better rates. These get signty octor rates. Incee are worth more than their face value since there is no income tax in China. According to the Bank, these new measures have more than doubled the amount of money on deposit.

Source

Another source of funds is the money held in the accounts of industrial enterprises. As production increases, this source gets bigger and higger. Yet a third is the savings by non-commercial enterprises (for example, the Foreign Ministry or other Government bodies). These are legally obliged to keep their funds in the Bank, and they do not draw interest

The People's Bank's second management tool is its loan policy Bank loans are a secondary but important source of funds for enterprises. The country's main capital construction funds do not come from the Bank, but from the appropriate plaining level (central, municipal, provincial), in the form of grants. There is much discussion about whether the grant system should be changed to loans to make factory managers more accountable. Working capital also comes

in the form of non-repayable seeming capitalist or bourgeois grants, but if the enterprise exceeds its grant it will have to Following the Bank's rehabilting to use it as it did in the past, as a lever of control. The People's Bank has taken on the leadership is attempting to use it as it did in the past, as a lever of control. The People's Bank has taken on the leadership is attempting to use it as it did in the past, as a lever of control. The People's Bank has taken on the leadership is intended to operate in financing collectively owned by the level it now plays a part in the following the level it now plays newly reconstituted Construc-tion Bank (it disappeared in important now as collective demand higher interest. Where enterprises are being encour-construction is extravagant, it aged to help solve the serious can either admonish an enterunemployment problem.

Loans from the People's Bank are for a maximum of 12 months, and the terms are adjusted to the needs of the enterprise. The enterprise is expected to make a detailed report to the Bank and complete an application saying how it plans to use the loan and buuchon plans to make certain when it will be repaid. A that will play an increasingly that they do not get out of con-branch bank below provincial powerful role. level can decide on a loan proyear.

the new era of readjust—annual budget. If it does, the the People's Bank sees branch must apply to the next

The Hank does not really play an edvisory role in industry, as it might in a Western economy. Although it has some experts in particular industrial fields (the kreel industry, for instance), it mainly uses staff in other, government departments to check on the efficiency

current policy is to give priority to enterprises which in the judgment of the Bank are the most successful. This is certainly an innovation in China, where previously the plan came first and inefficient enterprises were supported by the Bank to help them fulfil their targets because, even if non-commercial, they were thought to be necessary. The Bank now assesses the profitability of an enterprise and the extent to which its products are market or for foreign trade. The most efficient factory making the most desirable goods gets the biggest and longest-term loan.

There is no doubt that this policy is being interpreted strictly. After the unscheduled outburst of capital construction last year (the funds for which did not come from the People's Bank, however, but from ill-planned state grants) the Bank planned state grants) the Bank is looking very carefully at loan applications. At the banking conference in Peking in February it was ruled that banks should have the power to refuse loans even though they might be recommended by a "leading comrade."

The Bank's third management tool is its control of the circulation of money. Besides being the bank of issue, it also supervises all transactions above 30 Yuan (just over £9), which according to the regulations must go through its books. If an enterprise does not pay for raw materials or products, the bank can either insist that it makes compensation or it can simply transfer the money out of its account. It can also prevent an enterprise making large profits through evercharging as this too, will be obvious from

its records.
In the same way the Bank can supervise output and construction. It can see from its books if too much raw material is being used, and it can criticise low quality. If its criticisms are ignored, it can stop loans or can either admonish an enter-prise itself or, if this has no effect, refer the matter directly to the State Council. To avoid this situation, when planning takes place at the different levels of the hierarchy, the Bank must be consulted. Crearly, the

Mile E



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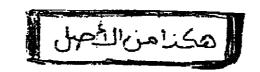
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Muddling through

INDUSTRY

MAINTAINING a high rate of investment in industry has been one of China's central priorities for the past 30 years. There is now a large, diversified industrial base and the country produces most of the materials. machinery and consumer goods that it needs; the fact that foreign trade represents less than 4 per cent of GNP illus-trates the degree of indepenthat, has, been achieved. But China's industrial per-

formance has been held back. by weaknesses in the planning system and in the management of individual enterprises. Because of political and ideological-conflicts-there has been an plants. erratic approach to foreign technology.
There has been confusion.

too, over the relative importance to be attached to capitalintensive, large-scale industry, and small-scale rural industry. result is a lack of balance which is aggravated by persis-tent shortages in basic sectors of the economy, natably elec-tric power, transport and building materials.

The present regime has adopted an industrial policy which is designed gradually to eliminate these weaknesses and to set the economy on the road towards balanced development. The ultimate objectives are the same as they were in 1949 -rapid economic growth and national independence, especially, in defence—but the methods are based on a more realistic assessment of the skills, experience and resources

After the euphoria of early 1978, when a series of overambitious goals were proclaimed, it is realised that China cannot do everything at once. There is an urgent need to make full use of existing investment revenues. This was equivalent before embarking on massive to 70 per cent of the state's new commitments.

The implications of this reappraisal were evident at last ment in light and textile indusmonth's National People's Congress. The first two points made Vice-Premier Yu Qfull in his comments on the 1979 economic plan were, first, that efforts should be concentrated on developing agriculture at higher speed and, second, that everything possible should be done to speed the growth of light

The coal, petrolcum, power, more than compensated, be-

other industries "would be arranged in accordance with possible fuel and power supplies." The proportion of the central government budget going to heavy industry would be

The range of products covered by light industry is wide. It includes textiles, foctwear, ceramics, handicrafts, canned foods, consumer elecceramics. handicrafts. tropics, bicycles, sewing machines and a host of other consumer items. Some of these activities were well established in China long before 1949; while there is a need for modern designs and modern technology they pose fewer problems of management and organisation than steel or petro-chemical

A rapid expansion of this sector serves several purposes which are vital to the Chinese economy over the next few years. Because it is labourntensive, it will help to solve the unemployment problem. It provides an important market for the products of agriculture.

improvement in the quantity and quality of Chinese consumer goods is necessary to meet the people's aspirations for higher standards of living.

Products of light industry, in which China has a comparative advantage, should be a dynamic clement in the country's export trade, helping to finance imports of capital goods. Finally, investment in light industry should yield quicker returns than investment in high-technology heavy industry.

A recent editorial in the Workers Daily noted that between 1950 and 1977 profits and taxes paid to the central government by the light and textile industries accounted for 29 per cent of the state's investment for capital construction and 14 times the investtries,

For each yuan spent on light

and textile industries the state

received 52 cents in the form of profits and taxes, compared to only six cents received from heavy industry. The editorial commented that the new priority for light industry would temporarily delay the growth of heavy industry, but "it will be

The of curphasis towards light industry connot be achieved by government manufacturing decree. The operations may be relatively simple, but the task of mobilising the many thousands of small the country is formidable.

The bureaucracy, both central and local, has been geared to the needs of heavy industry; it is the managers of heavy indusrial enterprises who know how to work the planning and allocation system. Moreover, if the manufacturers of light industrial products are to play a bigger part in satisfying consumer needs and in promoting exports, they will need to be responsive to changing market

It is in this sector more than any other that the planned, socialist economy has to be modified by the injection of market economy principle—a blend which the Chinese leaders say they are determined to

Direct contact with customers is essential. A model of what can be done is the Shanghal Leather Shoe Factory, which this year is exporting about 500,000 pairs of ladies' shoes to customers in Australia, the

S. Hong Kong and elsewhere. Not only are the designs and styles well suited to the world market but the managers appear to be in regular contact with their international customers and to be relatively free of the bureaucratic empiles of which other enterprises complained. The factory has its own retail store in Shanghai.

In textiles, garments, food processing, toys and other branches of light industry there is scope for co-operation with foreign companies which can provide equipment, know-how and access to world markets. In electronics, particularly, the Chinese authorities are hoping that the new law on joint ventures will stimulate the inflow of foreign capital and tech-

Maisushita, the Japanese consumer electronics company which recently signed an agreement to manufacture TV sets in China, hopes to develop collaboration with the Chinese on a wide range of products, perhaps involving other Japanese manufacturers. At the same time the Chinese themselves are cause after eight or ten years sending out missions to learn apply a more rational approach. Cleveland Cliffs' Tilden mine in

be funds for the construction of more about foreign marketsmore heavy industrial enter-prises will have been accumu-lated." channels and marketing arrangements.

> The expansion of light indusreliable supply of equipment. components and materials from the heavy industrial enterprises, An improvement in the effi-ciency of heavy industry is one of the goals to be achieved during the three-year period of re-adjustment.

> machine tools, steam turbines and electronic computers show that the Chinese are capable of developing and manufacturing complex machinery on the basis of their own efforts, since they have generally moved beyond the original East European While the policy of self-reliance has often been carried to extreme lengths, facories have shown remarkable ingenuity in overcoming production and supply problems.

Moreover, the managers of these plants are well aware of their technical shortcomings and have a pretty clear idea of what should be done about them. At the Shentang Vo. 1 machine tool factory one of the products is a vertical multi-spindle semiautomatic lathe, used mainly in the automotive and tractor industries. In the workshop there is a large display which enables technicians and workers to compare in detail the specifications performance of this machine with four comparable machine tools made in the U.S.. the UK, Italy and the Soviet

The need to reach internationally competitive levels of quality and reliability was strongly emphasised in this and

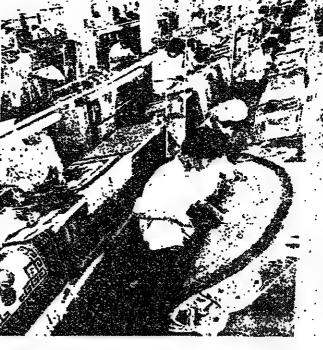
other factories.

The selective application of foreign technology will be necessary to upgrade the performance of heavy industry. In the sectors which supply essential inputs to agriculture and light industry, such as fertilisers, synthetic fibres and plastic materials, China is continuing to place very large orders for complete plants with foreign companies. But for the most part China will probably use a combination of self-help and limited foreign aid to improve what they already have; farm machinery, where there is a need for more efficient engines, modern tractor designs and new production facilities. will be an interesting test of

this policy. At the same time China will to small-scale rural plants. In principle these plants play a useful role in using local materials and supplying local markets, especially in a country whose transport and distribution network is made developed, but the product and technology must be appropriate

There is enurmous scope for improving efficiency at all levels of Chinese industry. Yet it is striking how much has been achieved despite political dis-Visits to factories making ruptions and the difficulties imposed by centralised planning. Not only have the Chinese mastered some difficult technologies (especially but not exclusively in defence-related sectors), but they have shown a remarkable capacity for impro-visation and muddling through.

Given a stable political environment, rational economic policies and, above all, patience, China is capable of developing a modern industry well-suited to the needs of the country.



Woollen carpets being made in a Chinese factory

New mining projects await go-ahead

MINERALS

AT SIJIAYING in Hebei province, about 300 km east of Peking, a group of Americans from Kaiser Engineers is completing an engineering study of what will be-if the Chinese decide to go ahead with it-one of the world's largest open-pit from ore mines. The ore is a complex mixture of martite and magnetite, and Kaiser's proposals involve benefication to increase the iron content from 28 per cent to 66 per cent. The depth of the pit will reach about 500 metres, and mining operations will involve shifting about 100m tonnes of material a year. In size, ore characteristics and type of equipment needed, it is similar to similar to

-which is one of the reasons Kaiser was enosen to do the work, since this company had engineered the Tilden project.

Kaiser's contract, signed last autumn was for the first phase of the project, to provide engineering services for the mine, concentrator, pellet plant and auxiliaries. The project team under Mr. Les Trew has been working out capital and operating costs, obtaining bids for the equipment and preparing a financing plan-all of which will be discussed with the China National Technical Import Corporation and the Ministry of Metallurgical Industry in the next few weeks.

Although steel has moved lower down the list of China's priorities, Kaiser Engineers has received no indication that the imports aving, but some of the Sijiaying project will be reserves are in remote areas deferred. The hope is that which will need large invest-

the upper peninsula of Michigan reserves, is a net importer of iron ore, it will be seen as an parent. Metaligescilschaft, one import-saving project and will be carried through. Moreover China badly needs to update its ore mining technology, most which dates from the 1940s and 1950s. The Sijiaying mine is situated close to a main rall-Shaughoi and southern

> The decision on Sijiaying will be a pointer to China's intentions on how fast the country's mineral resources are to be exploited. Another American company, Bethlehem Steel, is working on a similar iron ore project at Shuichang, also in Hebei province.

In non-ferrous metals, too, there is substantial scope for

Traditionally China has been substantial exporter of lungsten, tin, mercury and antimony, but production of these metals has tended to stagnate in recent years and new investment is badly needed. There are known to be rich reserves of these four metals, as well as of manganese and molybdenum. There are also extensive deposits of aluminous ores, bismuth, gallium and titanium, together with large potential supplies of copper, According to a recent article

in China Reconstructs, some important discoveries have been made in the past year. These copper/lead/zinc Sichuan; bauxite at Pingguo in Guanxi province; silver in Henan; copper in Xizang (Tibet): copper with potential reserves of more than 8m tonnes in Jiangxi: lead and zinc in the west of Yunnan. The same article refers to recent discoveries of nickel and chrome.

How quickly these deposits will be exploited is unknown, China is importing large quantitles of aluminium, copper, nickel, chrome, lead and zinc. Numerous discussions have been held with foreign componies about mining projects, but few substantial contracts have yet been signed. Fluor of the U.S. is conducting an engineering and financing study for a big open-pit copper complex in Jiangxi province; this may be associated with a copper refinery on which Sumitomo Muning of

Japan has been working.
Lurgi of Germany signed a
framework agreement last November for non-ferrous metals development and the first few projects are now being negotlated. These include new equipment for mining, beneficiation and smalting which would be financed on a compensation trade basis, with ore concentrates and metals shipped from China and marketed by Lurgi's the world's largest metal trading companies.

Two British groups. Charter-CIB and Seltrust Engineering, submitted proposals earlier this year for six mining projects. is situated close to a main rall- The former recently held way line and is well placed for further talks in Peking on four shipping pellets to steel plants of these projects-a lead-zinc venture in Qinghai, lungsten in Hunan, tin in Yunnan and cobalt in Hainan Island.

It seems that the non-ferrous expansion programme will be phased over a longer period than had originally been intended, but the next few months should show how high a priority China now attaches to this sector. One of the questions remaining to be answered is how the use of compensation trading will be reconciled with China's large internal needs for

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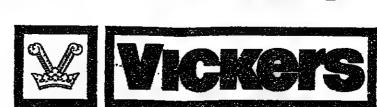
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Burdens on the network

TRANSPORT

CHINA'S TRANSPORT system is far from adequate even for the present state of its economy. Peking's recognition of this is an important reason for the introduction of its economic "readjustment" policy. Belatedly it became aware that its rail and port facilities were groan-ing even under their present burden, and to increase it with a further load would be inviting disaster. Speaking with frankness remarkable even in the new climate, the New China News Agency noted in July that the capacity of many stretches of China's main railway lines had reached saturation point, and that some sections could only

meet 50 per cent of demand. Since 75 per cent of China's freight is thought to go by rail, this is a serious problem. As the railways provide the strategic mobility and logistic support for the army, which is deployed along them for lack of other transport, it is also a severe military handicap. The efficient, neither the roads nor the truck industry are anything like adequate for China's needs.

factory national transport netincreased by the fact that the main rivers run only from west to east. Hence these only pro-vide arterial routes from the developed eastern half of the country to the interior, and act as a positive barrier between the urban centres.

The distribution of the country's raw materials and its pattern of industrial development have added to these problems. Most of the coal and iron ore now exploited is in north and north-east China, and the main industrial centres are in the north-east and down the eastern coastal belt.

While these also contain rich but as often from Dallen in Paochi) but are planning at the running of the trains, the

sources of raw materials, they do not have the infrastructure and skills to develop them quickly. Now that the leadership's main aim is to expand the economy fast, it is concen-trating on the east, but the worn-out railway system is already verging on collapse.

The NCNA revealed that the lines east of the Peking-Canton track carry 85 per cent of the track carry 85 per cent of the total volume of the country's rail freight, and over the years these lines have been neglected in favour of development elsewhere. On the over-burdened eastern stretches steel, coal, ore, imports, exports and consumer goods are seriously delayed while trains queue up or change

Decision

To try to solve these problems the Railway Ministry recently held a national conference which proposed the reconstruction and repair of old lines, the electrification of some major sections and the expansion of three important junctions. including Peking. But the vital question is how far the Chinese remaining 25 per cent goes by will actually be able to imple-waterway and roads, and while ment the decision when they the waterways are reasonably have so many other pressing have so many other pressing economic needs

Even the rail links outside this eastern area are far from Peking has great difficulties to satisfactory despite the investovercome in setting up a satis- ment they have swallowed up. China still has only one main north-south line, from Peking to country—(approximately 4,000 Canton. A second north-south km from north to south and route, from Taiyuan to Liuzhou, 4,800 km from east to west) is is still under construction after an enormous handicap, and it is eight years of work. There are only two major east-west lines, from the east coast port of Lienyungang to Urumchi in the far west, and from Shanghai to Kunming. These are both of strategic importance since they lead to vital border defence areas, and must, therefore, be partly taken up with transport-

ing military goods.

The railways burden has been increased by inadequate general planning. For example, the 1.5m tons capacity steel plant at Pauzehua in Sichuan province ships out all its products to Shanghai nearly 1.000 miles away for finishing, while But for political reasons most the Metres and Cutting Edge of the transport effort since 1949 Plant in Chengdu. also in has gone into building links Sichuan, ships in its special

The bicycle is still the major means of transport for the Chinese, with nearly 3m cycles

rail, a distance of well over This kind of shortsightedness still persists. One example is the recent planning of the \$2bn Japanese-supplied steel works at Baoshan near Shanghal. Ore for the plant, when completed, will be shipped in from Australia, but the planned new port, which will handle 100,030-ton ore carriers, will be at Ningpo.
over 100 miles away by sea and building and repair of worn more than 200 by land. Even at track and equipment. The the Shoudu steel plant near People's Liberation Army Peking, where raw materials (PLA) railway corps is responsore endemic and the steelworks. are endemic and the steelworks keeps an official permanently at Peking railway station to speed up delivery.

Chinese are apparently capable come including electric locomotives.

north-east China, frequently least four more, plus two which repair of the lines and the load. In any case, aviation is not signitravelling the whole way by they discussed last year with ing and unloading of freight, to ficant for freight. the Japanese, Peking-Tlanfin electrification and double-

in Peking, a city of 10m people

sion with British Rail. Chinese rallway problems appear to stem not so much from lack of technical knowledge,

Factions

p delivery.

Maintenance is the job of the
On the technical side the local railway bureaux, which
hinese are apparently capable come under the Railway of making all their equipment, Ministry, and during and after the Cultural Revolution these were heavily politicised and transport enort since 1999 Plant in Chengau, also in So far they operate only one drawn into the factional fight-the western interior, steels, semetimes from Shanghai electrified line (Chengdu to ing of the times. This affected

Japanese, Peking-Tianjin the point that immediately.

Japanese, Peking-Tianjin the point that immediately.

Peking-Zhengzhou. The after the fall of the Gang of Peking-Zhengzhou. The Four in 1976 China's mest imelectrification and double portant junction at Zhengkhou tracking of the Kowloon-Canton had to be put under military line has also been under discuss control. While the present leadership is determined to get to grips with the railway probiem, neither the long-standing

lack of investment nor the endemic political difficulties can be solved in a day. Waterway transport in China is traditional and appears to work reasonably well. Since the rivers and canals have already been exploited for hundreds of years, it is unlikely that there

will be much expansion. The highway system is different. It is at present minimal, and apart from a few trunk routes like the road to Tibet, surfaced roads exist only in urban and suburban areas. Truck produc-tion, extremely low and ineffi-cient by western standards, is commensurate with that. However, in its present drive to con-serve oil Peking is unlikely to expand motor transport.

Aviation is an important transport becomes a feasible means of communication in China (officials at all levels are constautly attending meetings, over the country), and the China over the country), and the China Aviation Administration Cerpor kind of difficulties, that face the attent (CAAC) now files 548; leadership is bringing the transinternal flights a week. Before modern levels, and to iron them were showing interest in the chinase all out across the country will british Aerospace 146 feeder, take many years. sems to have evaporated.

Relevant to China's internal transport is the state of the ports. Foreign ships still exper-ience long delays because of poor equipment, and shallow waters mean that large carriers cannot be accommodated. Last year the Chinese approached the Danish company East Asiatic with a project for modernising eight ports, but this has been postponed. So, it seems, has the proposals to the Dutch Port and Delta Consortium, which was hoping for a \$1bn harbour modernisation contract includ-ing the construction of a coal handling port at Lienyungang.

Containerisation is a general objective, and some containers are to be seen on the dockside at Huangpu (Whampoa), the port of Canton. Building work is in progress there, but the People's Daily, said recently that not even the first stage of construction had been conventions. pleted after five years' work. Besides, Chinese roads and bridges would need total reconstruction before container-

C.M.

A need to simplify the planning system

EFFICIENCY

CHINA'S INDUSTRIAL system is plagued by inefficiencies at all levels and it will take a good many years of determined and consistent effort to root them

The inefficiencies stem in part from excessive bureaucracy out. ship between the enterprise and side the enterprise numerous and often overlap, still being debated, but the ping levels of authority, cen- direction of reform is clear. ping levels of authority, central, provincial and local, whose approval is needed for key

decisions. While the Chinese are now trying to simplify the planning and control arrangements, there must be doubts about whether a genuine decentralisation of authority to the managers of individual enterprises - which would imply a greater respon-siveness on their part to customer needs - is compatible with tion of resources.

Within the enterprise the planning system as it has operated so far is not conducive to rational management. Because funds for capital investment and to some extent for working capital have been allocated by the state in the form of grants, there has been little incentive to use the money economically or to earn an adequate return on them. Virtually all the profits of the enterprise are handed over to the state.

Disrupted

Enterprises do not in general deal directly with their custo-mers or their suppliers of raw materials and components. These functions are handled by other agencies and corporations whose role as intermediary beincreasingly burdensome and

The internal management of factories was disrupted by the turmoil associated with the Cultural Revolution and the Gang of Four (1966-76). Party Revooperating units, so that the and in newspapers. The official
lutionary Committees made it
managers and workers in those line is: "Adhere to the prinimpossible for senior managers to exercise authority over the workforce, while the drive for egalitarianism led to the abandonment of personal incentives

for higher performance. Although a more normal management structure has now been

widespread; productivity of labour is low.

The Chinese authorities are aware of the need to change institutions and attitudes so that these weaknesses can be overcome. Changes within the enterprise and in the relationthe its supervisory authorities are

Managers are to be put under greater pressure to perform efficiently and given greater autonomy in running their factories. One aspect of this is the planned move from grants to loans in the financing of capital investment. The idea is that the enterprise which receives a loan for a major project will have to account strictly for its disbursement and will be penalised for over-runs in the Government's insistence on cost or construction time. This the need for centralised alloca- should lead to better planning and a more sparing use of

capital. At the same time there are suggestions that the depreciation rate will be increased and that enterprises will be allowed to retain a larger proportion of their profits. Thus the more profitable companies should be able to grow faster—and provide better salaries and better conditions for their employees. employees.

However, according to a recent article in the Peking Review, the new system does not mean that there will be free competition for capital construction according to the principle of profit. "The state will continue to draw up construction plans and make deci-sions with regard to the projects to be built in accordance with the socialist principle and in the interests of the people." A balance is being sought between autonomy and local incentives on the one hand and

central control on the other. Within large enterprises there are moves to push profit responsibility down to the units are held accountable for their performance and rewarded

In the Anshan steelworks, for example, which has over 200,000 employees, each of the production units which sells to outside customers has its own rationalisation and specialisation. The management teamques used in Japan and the West; but it is in the structure of government that the biggest reforms are needed.

G.O.

bonus systems have been re- plans to extend this to plants have been unable to rely on instated, it seems that the bad whose output is used internally work habits engendered during and to create new accounting the 1986-76 period are still units for maintenance and repair, for component manufacture, for welfare services and

> Since the beginning of 1978 Anshan has brought in new bonus schemes. One is a comprehensive bonus for all members of a production unit which fulfils its eight targets. (These quality, variety, labour utilisation, raw material consumption, cost, working capital and profit.) Individual bonuses are also paid to workers who make an outstanding contribution by, say, economising on the use of

raw materials. Largets

A senior manager at Anshan told us that since the introduc-tion of these schemes 49 of the production units had achieved their eight targets, compared with only five out of the 54 in the previous year. The attendance rate had improved by about 20 per cent. "There are fewer patients in the hospital," we were told. Bonuses at Anshan average about 14 per cent of the monthly wage.

Both the principle and the mechanics of the bonus system are still matters of controversy. They have had a divisive effect in some plants and there have been reports of strikes, with workers demanding that the same bonus should be paid to everyone.

The authorities are anxious that too much stress should not be placed on material rewards. -"political education is essen tial—if we relied solely on bonuses, conflicts would occur,' we were told at Ashan.

Apart from appealing to the workers' revolutionary spirit (Communist Party members are expected to abstain from taking their bonuses or at least to take a smaller amount than they are entitled to), there is publicity for outstanding work-ers on factory notice boards ciple of combining moral encouragement with material re-wards, with the emphasis on

restored in most enterprises and profit torgets. The management tion. Partly because factories

supplies of components, there has been a tendency to integrate backwards in castings, forgings and other items. In some sectors a number of units are being grouped together under one general factory which can allocate work on a logical basis and avoid unnecessary duplication.

At the Shenyang Tractor Factory, which has a capacity of about 20,000 walking tractors targets relate to quantity, a year, we were told of plans to close down some small, uneconomic tractor plants (which had been set up during the Cultural Revolution) and to supply the whole of the North East from one source. The same thing is happening in the fertiliser industry. There are limits to how far rationalisation can be taken on a national basis, in view of transport difficulties, but it is being encouraged on a regional and local level.

> As the drive for greater efficiency continues, two doubts persist. One is the possibility of resistance to the introduction of techniques and practices borrowed from the capitalist system. The statement attributed to Deng Xiaoping in the early 1960s—" black cat, white cat, as long as it can catch rats it's a good cat"—was violently attacked during the Cultural Revolution as an endorsement of capitalist methods.

That hostility is certainly not dead, but supporters of Deng argue that some Eastern European countries, such as Yugoslavia and Hungary, have succeeded in introducing elements of the market economy without undermining socialism.

Second, there are vested interests at all levels of the bureaucracy which may prove a powerful obstacle to decentralisation. Even if some streamlining is achieved at the provincial and local levels, big investment and planning matters have to be referred to the centre, where the decision-making process is slow.

Co-ordination between ministries appears to be weak or non-existent and conflicts can be resolved only at the very highest level: hence decisions tend to be deferred or not taken at all. The authorities have been urging enterprises to emulate management techniques used in Japan and the West; but it is

| 1977 125,400 | 1978 149,100 |
|-----------------|----------------------------------|
| 27.41 | 28.1 |
| 293 | 521 |
| 6,396 | 16,950 |
| 64,300 | 865,900 |
| | 125,400 27.41 298 6,396 |

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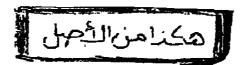
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A plan to correct the imbalances

STEEL

ANSHAN IN North West China is one of the world's largest steelworks. It produced 6.8m tonnes of steel last year and total employment, including the iron ore mines, is over 200,000, more than the whole of the British Steel Corporation put together. Yet Anshan suffers from all the weaknesses which have made steel a major bottleneck in the Chinese есоному, will be installed (this will The equipment, most of it probably be imported) and designed and built in China, is a mixture of old and new. Among the 54 mills and work-shops which make up the ironand steel-making complex is China's largest blast furnace and two big 150-ton oxygen converters. But much of the plant is inefficient and there are serious imbalances within it.

Although there are extensive local iron ore reserves, there is not enough ore being produced to feed the blast furnaces. The capacity of the rolling mills is too small to absorb the output of Four period but partly also because of the difficulty of improve quality." managing such a huge, The ambitious

the time of our visit a revised development plan, geared to the three-year period of reappraisal

management is looking for a well-balanced works with a capacity of around 7m tonnes. Some of the open-hearth furnaces will be replaced by a third large oxygen converter.

there are tentative plans for a new wire mill and a tube mill. The iron ore mines are being expanded; some preliminary talks have been held with United States Steel on this. At the same time the organisation of the works is being simplified. with profit responsibility being

Plans for an immediate and dramatic expansion of capacity have been deferred. This year's of the steel-making shops. Pro-budget calls for an output of ductivity of labour is low, 6.7m tonnes, slightly less than partly because of the disruplast year. "During the period tiens caused during the Gang of readjustment," we were told, "our aim is to reduce cost and

The ambitious project to concapacity the modernisation of tonnes a year, is still on the Anshan is vital to the Govern-table and some preliminary ment's hopes for an efficient work has been done on it, but

| | Location | (m tons) |
|---------------|---|----------|
| | g) | |
| | *************************************** | |
| | *************************************** | 1.3 |
| | ongolia) | 1.0 |
| | outener) | |
| Observation 1 | | |
| | 1 . 1 . 26 | |

MAJOR STEELWORKS

three-year period of reappraisal decreed by the authorities, was beginning to take shape.

The emphasis is on correcting imbalances and making the best use of existing facilities. The making shop with three 30-tonne three several alternatives for same at the Shoudu steelworks supplying power to Wuhan, in Peking. Shoudh has four cluding a gas turbine power blast furnaces which produced station on which several foreign 2.1m tonnes of iron last year, imbalances and making the best as a basic oxygen steel.

With so much valuable plant finished products. The plan is to modify and expand the works A continuous casting machine will be installed this to create a balanced capacity of 3m tonnes a year.

devolved to the individual units.

Quality

sprawling site.

Since it represents more than north-west of the present site.

Since it represents more than north-west of the present site.

-last over industry which can meet the it is unlikely to go ahead until

poration prepared a joint study on the modernisation and ex-pansion of Shoudu. Davy has tivity. been negotiating for the supply of a new blast furnace and merchant mill, to be followed later by a basic oxygen furnece, a continuous caster and a hot strip mill. Although no con-

Davy and British Steel Cor-

tracts have yet been signed, there are strong hopes that the business will come to the UK, especially as the Davy/BSC proposals contribute directly to the objective of upgrading the quality of steel produced at Shoudu. Davy would supply the hardware, and BSC the technical services, training and assistance with commissioning and operating the new plant, Chinese badly need

steelmaking capacity year they imported 8m tonnes, mostly 8m tonnes, mostly Japan—and yet their existing plants have been operating well below capacity, through equipment deficiencies, lack of power or for other

is not available.

expansion, ordered in 1974, in-cluded a hot strip mill and other plant from a Japanese group led by Nippon Steel, while Demag and other German companies supplied a continuous

country's steel requirements. At the problems of the existing Ising line. The Ministry of the time of our visit a revised works have been sorted out. Metallurgical Industry is study-The priorities are much the ing several alternatives for

> converters (designed and made under-utilised there is a reluc-in China) which made 1.2m tance to launch into massive tonnes of steel last year. It new projects Since the heady has a bar and rod mill which days of early 1978, when a tarmakes 300,000 tonnes a year of get of 60m tonnes of capacity by 1985 was proclaimed, steel has been moved down the list of priorities. As the Minister, Tang Ke, said to us in Peking: We have got to be realistic. The immediate need, he stressed, was to improve produc-

> > How the reappraisal will affect the size and timing of investment in steel is far from scaled down, the Chinese still clear. After some months of re-negotiation the new Baoshan their steel industry and some steelworks outside Shanghal, to of it seems certain to involve be built by Nippon Steel, is now foreign equipment. In the case going shead. This is of Shoudu, for instance, there the biggest single project is apparently a desire to order within the China-Japan trade British equipment, but there are agreement. It will have a capacter familiar complaints that the ity of 6m tonnes a year to be reached in two stages, and is designed to supply the engineer- equipment must be paid for by ing industries of Shanghal, which at present are seriously short of iron and steel.

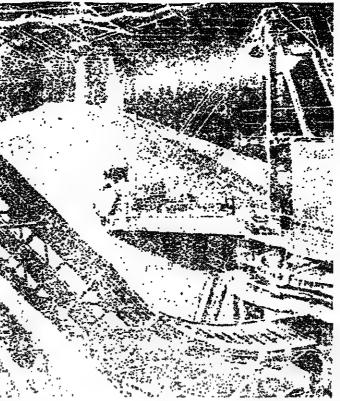
Complaints

The plan for another new works, at Ji Dong in Hebei pro- export markets. vince, which was to have a capacity of 10m tonnes or more. appears to have been deferred. This was the project for which a German consortium including Schloemann-Siemag, GHH-Sterkrade, MAN. Siemens and Thys-The outstanding case of bad sen had high hopes. With an planning is the Wuhan works estimated cost of DM28bn, the in central China; nearly \$500m. Ji Dong works was to have four worth of Japanese and German blast furnaces, each with a equipment has been installed capacity of 10,000 tonnes per but the start-up has been de-day, and two oxygent steelmak-layed because sufficient power ing shops with seven 330-tonne The equipment for the Wuhan

The equipment for the Wuhan

Expansion, ordered in 1974 in
Eluded a hot strip mill and other converters, as well as a heavy plate mill, a hot strip mill and expansion, ordered in 1974 in
Eluded a hot strip mill and other converters, as well as a heavy plate mill, a hot strip mill and the ministry of Metallurgical industry indicate that the project will go ahead, but on a time-scale yet to be determined.

Yet if the more ambitious he solved. One is the need to caster, a cold mill and a galvan- projects have been deferred or improve the supply and quality



A fertiliser store at a Japanese-built chemical plant

will be spending large sums on CRUDE STEEL PRODUCTION prices are too high and an insistence that the imported exports of steel from the plant. 1965-76, Both the paraceter the plant. Both the manager at Shoudou and Minister Tang Ke were em-phatic that the Davy and British Steel Corporation, if they wanted the business, would have to help China sell steel in

Attempts are being made to convince Peking that it makes little sense to sell Chinese-made steel on an over-supplied world market, especially when China needs all the steel she can make for her own consumption. If China insists on compensation trade, which Davy and BSC are quite prepared to consider, it would be more logical to make use of the non-ferrous metals and special qualities of coking coal which BSC has to import from somewhere and which are available in China-or could be made available by the time the steel-making equipment is shipped.

In the meantime there are other problems which have to

(million tons) 1970

1979 (planned) 32.0 Note: estimated figures for official figures for

1976

Although there are large reserves of both these materials, much of the iron ore is of low grade and there has been inadequate investment in benefication. Kaiser Engineers and Bethlehem Steel of the U.S. are carrying out engineering studies on two projected iron or mines in Hebei province.

Another problem is the lack of capacity for alloy steels. Discussions have been held with the Japanese and with the UK over plans for upgrading some of China's existing special steel plants and for building new ones. Minister Tang Ke made it clear to us that this sector remained a high priority and that there certainly would be business for foreign companies. More concrete negotiations are expected to be resumed in the next few months.

Huge orders for plant

CHEMICALS

AT LIAOYANG, 30 miles south of Shenyang in the north-western part of China, some 40,000 Chinese and about 130 foreigners (mainly French) are working to complete one of the country's largest petrochemical complexes. The project is running late, partly because of its ammonia and eight urea plants; the latter were handled by Kelenter of the latter of the latter were handled by Kelenter of the latter were handled by Kelenter of the latter o size, partly because of design changes and partly, we were told, because of disruption caused by the Gang of Four.

The contract was placed in September 1973 with a group of French companies led by Technip and Speichim and the complex was due to he in operation last year; commissioning is now expected to be completed by the

and all the intermediate chemicals for nylon and polyester textiles and light industry. Two fibre; the plant is the responsi- of the biggest orders were for bility of the Ministry of Textile

plant; both these are completed, of iron ore and coking coal. and propylene. Virtually all the Although there are large equipment is imported except for the polyester spinning line used in parts of the country and two of the three nylon spinning lines. There are tentative plans for producing polypropy-plans for producing polypropy-plied with oil. All the Lurgi iene fibre at a later stage.

The complex has been built cash payment, on a green-field site, and con- Among Bri struction involves the familiar Chinese mixture of ox-carts and modern earthmoving equipment, at the Peking petrochemical stores. About 300 Chinese were sent to Europe for training. The construction programme which number of foreigners on the site may strain their management is expected to reach a peak of and engineering resources, but about 300 next spring, when foreign contractors believe commissioning is due to start. If all goes well, they should all ence of building and operating

G.O. for petrochemical, synthetic fibre

and fertiliser plants placed in the 1972-75 period. Other big fibre plants have been built at Shanghai, which has already been commissioned, and at Tianjin, still under construc-tion; most of the equipment for these two sites was purchased from Japan and West Germany.

On the fertiliser side by far the latter were handled by Kellogg's Dutch subsidiary. The UK's share of contracts during this period was small; Humphreys and Glasgow sup-plied a methanol plant which forms part of a complex being built by Speichim.

Another wave of ordering began in 1977 and reached a peak towards the end of last year. Again the emphasis is on The complex includes a cata- using China's heavy crude oil lytic reformer, steam cracker as the basis for producing materials needed in agriculture, aromatics complexes to be built at Shanghai and Nanjing by Lurgi; the latter is associ-Industry.

In addition to the French companies, which include Rhone-poulenc. F. Uhda, of Germany has built a high-density polyether plant and Snam Proceedings of Italy a polypropleme Days subsidiary.

Days subsidiary.

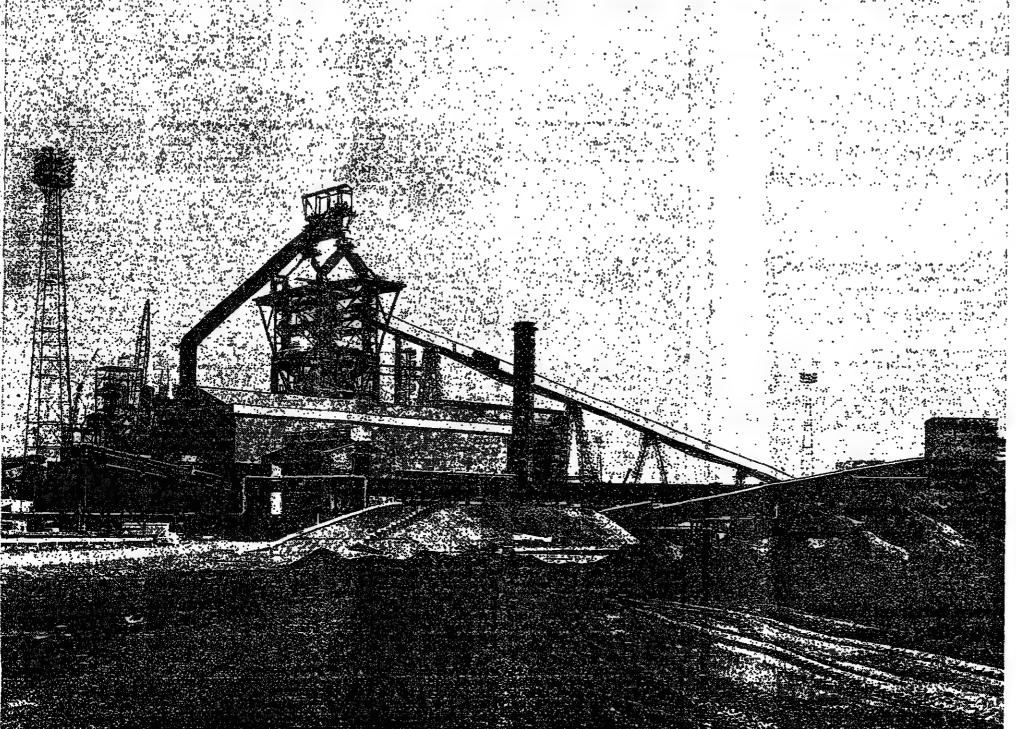
Lurgi also won a significant

Lurgi also won a significant order for a coal gasification plant, to produce ammonia, in Peking; this technology may be contracts are on the basis of

Among British orders are Davy's contracts for two oxoalcohol plants and a synthesis gas plant and a CJB contract mostly imported from Japan. As for high-density polyethylene. Pullman Kellogg has won some works, a large satellite town has further business, but the lion's been created, with its own hos-pital, schools and department and Japanese companies.

The Chinese now have a huge foreign contractors believe China now has sufficient experihave left by the end of the year, similar plants to carry through The Liaoyang contract was the programme successfully, part of the big wave of orders

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Borrowing ideas from abroad

FOREIGN **TECHNOLOGY**

in Shanghai a 1,100-strong workforce, including 300 engineers and technicians, is turning out about 100 com-These are computers, belonging to two families, the DJS series and the TQ series, some models of which are also manufactured in Peking and other cities. The Shanghai factory, specialising in computers since 1966, is under the direct control of the Shanghai Electronic Computer Corporation, which in turn reports to the Shanghai Bureau of Meters most other sectors centralised planning is tempered by a considerable amount of local initiative. Important users or potential users of computers, like the Daqing Oil Field, play like the Daqing Oil Field, play a big part in the development of hoth hardware and software.

Much of the production work the character is at the Shanghai factory is carried out by haud. The senior managers frankly admit that they are many years behind the Soviet technicians in 1960. West in computer design and in China's attitude towards foreign. west in computer design and in manufacturing techniques. The quality of the integrated circuits appears to be patchy and the engineers are easer to according to the prevailing according to the prevailing and the engineers are eager to foreign technology has been move to large-scale integration one of the issues in the as developed in the U.S. and apparently unending "attacked according to the prevailing and the use of the issues in the as developed in the U.S. and apparently unending "attacked according to the prevailing and the use of the issues in the use of the use of

recent years (mainly from of the so-called Gang of Four Japan), and the Chinese the emphasis switched to home-engineers are learning what grown technology and hostility they can from them. But this to all things foreign. is not a substitute for the direct

The need for foreign tech-nology is clear, but how much of it will be bought, in which. sectors and in what form—these much can be learned by this matters are still under dis-cussion. Certainly the Chinese are not going to make themselves as dependent on outside supervision of the electronics technological help as they did during the 1950s, when the Fourth Ministry of Machine Building in Peking, but as in most other sectors according to foreign t will use foreign technology only when it is necessary to do so. Foreign companies will not be allowed to exercise direct influence over any significant part of the economy. Their par-

move to large-scale integration as developed in the U.S. and Japan.

Familiar

None of the managers to whom we spoke had visited whom we spoke had visited efficiency. In the early 1960s, after the failure of the them. computer companies outside after the failure of the Great China, but they received the Leap Forward there was a big technical magazines and were increase in purchases of foreign familiar with what was going plant and technology—and on. A few foreign-built com- again in 1972-75 after the Culputers have been imported in tural Revolution. With the rise

is not a substitute for the direct foreign collaboration which the Shanghai managers now recognise is essential. Some discussions with potential pariners have already taken place.

It was a similar story at the Shanghai Turbine plant. Built in the 1950s with Czech technical assistance, this factory is now making 50 MW, 125 MW and 800 MW sets. The senior managers admit that initiative and effort of our wor-The present regime is trying

sets during the next five years, most evident in the large num of industry... Virtually all the and a large new factory is under bers of Chinese who flock to hardware for the Kellogg am and a large new factory is under bers of Chinese who flock to hardware for the Kelling am construction for this purpose foreign technical exhibitions monia and urea plants, for ex But it is accepted that for the such as the British Energy ample, was imported the move into the 600 MW era some Exhibition which was held in Chinese appear to be caution foreign collaboration is essen Peking in June. These are about using indigenous equival. Preliminary talks have accompanied by technical ment in these projects, presurbeen held with General Electric seminars given by the parable for fear of causing technic of the U.S., and with the ticipating companies. It is not cal problems which will delay ticipating companies. It is not cal problems which will dela uncommon for a lecture to be their completion; followed by questions lasting. If the Chinese are to the best part of two days. But modernise their industrial has there are obvious limits to how without excessive dependence method.

Feasible The same applies to another technique which the Chinese have used the copying of imported machines; the Massey Ferguson 35 horsepower tractor was one early example. To reproduce an imported machine. may be feasible, but to make it on a large scale and to match the quality, reliability and cost of the foreign manufacturer is a very different matter. China lacks some of the equipment. The British engineering co move on to develop now pro plete plants and possibly join ducts, incorporating design ventures, particularly if the innovations of their own permit imported technology to the particularly in absorb foreign be paid for by exports. technology is limited by the lack of a design tradition and by the shortage of qualified designers, made works by the American observer, "is not the ability to manufacture. They small-scale batch production. What they have not mastered are the techniques of modern continuous-flow production processes, precise automation.

should have an important educa-

there are still some design problems, the line importing new technology advanced technology projects, period between major over we will encourage our engineers. But the danger is that these hauls, for example, is much to assimilate and learn modern plants, nost of which were built shorter with the imported (cehniques—that will contribute generator sets than with bute to our policy of indpending remote areas), will become the Chinese machines. The plan dence and self-reliance. islands of modernity without is to move towards 600 MW. The desire to assimilate is much spin-off effect on the rest during the next few res

without excessive dependence on oversess companies the will need to use foreign collaboration in a variety of different ways. For example, the manufacture of petrol and diesel engines is spread over number of plants and models with oxidated designs and non economies of scale both weighne assembly and in company and in compa ponent production. The modernisation of the farr machinery industry is a high priority and there is an urgen

steels) which are available to the Chinese on specific design the foreign company. More and on overall engine policy important, there is a long China is also likely to seek assist standing weakness in design ance from foreign engine and Unlike the Japanese, the component manufacturers. This Chinese have not been able to may involve licence deals, the copy foreign machines and then purchase of equipment and con-

in some respects the agree ment with Rolls-Royce on the Spey engine is a model which disruption of the edication other sectors — establishing a system between 1988 and 1976, partnership with a foreign com "What the Chinese lack," pany which is an acknowledged writes Hans, Heymann, an leader in its field, drawing on its partnership with a foreign com-pany which is an acknowledge. technology and advice to update existing designs and manufactur manage quite well with custom- ing facilities. For the foreign building, hand-machining and company the drawback to this more interested in selling hardwase than in transferring technology. For the Chinese the problem is the lack of qualified technology and other organisaengineers capable of absorbing tional aspects of management." the new technology. Training In this context the importa-tion of complete plants, paracu-larly for petrochemicals, fertilisers and synthetic fibres. provided by the foreign con pany is a pertial answer, but 1 the long run the diffusion (modern technology will require a great improvement in the tional effect. Although the construction of some of these plants has been delayed amough of them are in operation to show that the Chinese are capquality and quantity scientific education, especial in the universities and at the post-graduate lavel. G.O

A confusion of responsibility

MANAGEMENT

CHINESE MANAGERS, like university professors and others holding senior positions, suffered badly during the period of the Cultural Revolution and the Gang of Four. They were largely deprived of their authority and in some cases relegated to the shop floor. Power was in the hands of Revolutionary Committees which were more interested in ideological purity than in running an efficient enterprise. Since the fall of the Gang the role of the manager has been re-estab-lished. Senior executives, though still contending with great obstacles and frustrated because of them, have recovered some of their self-confidence as well as their authority. Most of the managers to whom we spoke during our visit showed as much enthusiasm and determination to improve profits, productivity and quality as their Western counterparts. The question is whether the Chinese system will allow them In most enterprises the dual

structure which prevailed be-fore the Cultural Revolution has been restored. On one side is the factory's Communist Party committee, whose secretary is regarded as the most important man in the plant. The Party secretary is responsible for representing the Party's policies and objectives to the enterprise and for ensuring that they are understood at all levels and carried out He is sometimes said to be responsible for political education, but at the same time he participates in major investment and technical decisions. All important decisions—for instance on the figures to be listening to their suggestions managers." The Chinese authoriincluded in the annual plan, and complaints and generally ties appears to acept this critiproposals for the purchase of concerning himself with the cism. In line with the more

stallation of a new incentive He is in regular contact with technology there is a realisation—: scheme—have to be approved the director (one has an up that adoption of foreign manage by the Party committee, which stairs office, the other down ment methods is essential if the meets at least once a month. The stairs), but does not interfere best use is to be made of in director of the enterprise, who in day to day management. will normally be a member of the Party committee and is: sometimes its deputy secretary, workers' congress is said to be is responsible for the day-to-day operation of the plant. He-and his deputies will meet at least once a week to review the progress of the factory. His deputies may be in charge of particular manufacturing de-partments or have functional sonnel and so on.

Party secretary and the director. If we relied too much on the is clearly crucial. In some workers congress, there would respects their roles appear to be a danger of anarchy." man and managing director in a Workers' Daily called for more-directors. One of the tasks of enterprises to establish workers' the Party secretary in the congresses to establish workers'. be not unlike that of the chairthe Party secretary is to look after liaison with external bodies—for example, with the various planning authorities with which the enterprise has to negotiate. (In the Anshan steelworks the Party secretary is also a vice-minister in the Ministry Industry.)

Discretion

Managers will say "we practise collective leadership," and cretion must vary from enterprise to enterprise. In the Shanghai Leather Shoe factory, which has about 900 employees, the nine-member Party commitment heads and next year's production plan. The Party sec-retary, apart from his activities

The Party committee contains

the main vehicle through which employees influence the management of the enterprise Some sort of balance appears to be struck between the Party committee and the workers congress. "If we relied too much on the Party committee," responsibilities, for production, we were told at the Shanghai quality control, finance, per Turbine plant, "the initiative of the broad mass of workers The relationship between the would not be brought into play.

> enterprises to establish workers congresses. "The leadership (of the enterprise) must inform the workers congresses about mple, with the the morrers congresses about the authorities the finances and planning of the enterprise as well as about difficulties and problems, and problems and problems and should ask them for criticism should ask them for criticism and suggestions. The article motes that in some enterprises workshop directors, section workshop directors, section chiefs and group leaders have been elected by the workers, and this has brought about closer relations between enterprise management and workers. There have been recommendations that direct election by workers should be applied to the senior directors, but this had not happened in any of the enterprises we visited.

tee considers the big issues Foreign companies operating like the appointment of depart- in China argue that the Chinese Foreign companies operating management system leads to a confusion of responsibilities and retary, apart from his activities a lack of a clear-cut chain of outside the company, spends a command. "There is too much good part of the day talking to scope for group discussion and workers at different levels, not enough direction by senior anthority and incentive to tak listening to their suggestions and complaints and generally ties appears to acept this critical independent decisions.

ported plant. Visitors from ovel seas have told Chinese official that output in some plants coulbe increased by as much as 5 %. per cent through a clearer an : more rational allocation of re-ponsibilities. An Association (Enterprise Management was se up in Peking earlier this year t study management systems and experience in China and abroad Row far these development

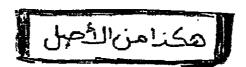
will enhance the status of the professional manager remains to be seen. Most of the managers to whom we spoke were hopeful.

Frustrating

It was, of course, frustratin's steelworks in Peking not to b able to buy even minor items (capital equipment without the lengthy process of filling u forms and arguing their cas with officials at the Ministry. was frustrating to be earning foreign exchange throug exports but not to be able to use a cent of it to buy importe equipment, even lieuss the would cost very little but would have a useful impact on production efficiency.

It was frustrating, too, not thave direct dealings with the plant's foreign customers and the discuss market conditions with them, so that they could see the strength of the competition and have a better appreciation of

It is often said that to modernisation of Chinese is dustry is primarily a matte management. But this is not lu-a question of acquiring specia involves giving the managers (



West is exploring offshore waters

OIL

ENERGY, THE Chinese say, is a priority sector. But within that sector it is offshore oil exploration that is getting he

greatest priority.

Western oil companies are now carrying out seismic surveys in about eight concession areas spread across the Yellow Sea and the South China Sea. Agreements with Atlantic Richfield and British Petroleum were rapidly followed in the first half of the year by contracts for seismic exploration with other western companies. companies expect to hand over the selsmic data and their inter-pretation of the findings by the end of March 1980. Peking is working on a new

law setting out the terms under which foreign companies can explore and develop. The indusexplore and develop. The industry hopes that this will be ready this winter. If it is, and the Chinese are happy with the interpretation of the seismic data, then they could denominate offshore blocs and open them up to international bidding

by next summer. This would mean that exploratory drilling could get underway by late summer. More likely the Chinese will want more time to make the necessary complicated assessments and drilling will begin in 1981. Western companies believe the Chinese will opt for some form

of production sharing contract. China's decision to open up its offshore waters has created a tangible patter of excitement among western oil companies as among western oil companies as the China coast is one of the few promising offshore areas in the world that has not been explored. On the Chinese side, the sharp break with past ideological hostility to involving western companies in resource development. western companies in resource development reflects Peking's belief that the potential of larger of exports offers the greatest promise of a sharp increase in foreign exchange earnings. Indeed, it seems likely that the Government will continue to positone decisions on the scale of capital equipment imports in the comins. ment imports in the coming years until it has a better idea of what its oil resources—and hence its borrowing capabilities

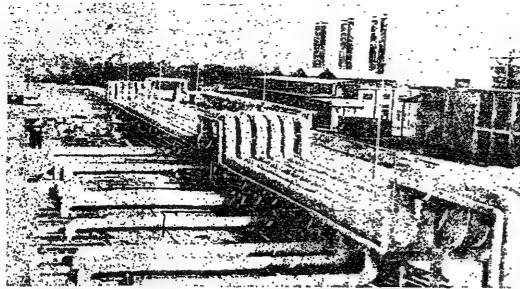
Evidence

based on scanty evidence—is that offshore reserves are likely to be of about the same magnitude as onshore reserves or roughly 39bn barrels. This would mean total reserves of about 78bn barrels. Until China decided this year to seek western help, there has been no systematic survey of the off-shore waters. China's own seismic surveys have been unmethodic and of only moderate quality by western standards. The Chinese are now anxious that their own personnel get training on the equipment being used by western companies.

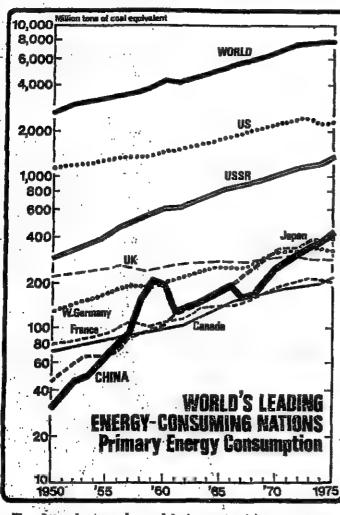
They are also buying more western oil technology them-selves. Between October, 1976, and December, 1978, they spent about \$500m on imports to develop their oil and gas reserves. This has included at least three survey vessels, six jack-up drill-ing rigs, six helicopters for supplying rigs and six supply vessels. Offshore purchases have been mainly from Norway. Japan, the U.S., Singapore and

France.
British Petroleum and Elf
Acquitaine are surveying
adjacent areas in the Yellow Sea. The agreement with BP—which is operator for a group of 16 companies—was signed in February and was initially estimated to involve seismic work costing \$6m with no guarantee that any of the partners will be able to undertake drilling work. By late June five transmission and monitoring stations on the Chinese coast needed for positioning survey vessels had almost been erected—in spite of Chinese hesitetion at foreigners working on a sensitive part of their coast and even stronger dislike of the continuous shore-to-ship radio traffic involved.

· Exxon, Mobil, Caltex and Phillips are operators for four



A pumping station on the Linyi Nanking oil pipeline at Yicheng in Kiangau province



The above chart can be read in two ways: (a) as a measure of the political instability in China since 1952 as compared with that of major powers or (b) as an illustration of China's

growing importance as a consumer of primary energy.

Vactav Smil, from whose essay "China's Energetics: a Systematic Analysis," it is reproduced, uses it to make the second point. He says, however, that Russia and the U.S. were the only two countries in 1975 to have surpassed primary energy production of 500m tonnes of coal equivalent (mtce). Both found that beyond that level the problems of further expansion slowed down the rate of growth. China's primary energy production has now passed 500 mtce. Beyond 500mtce, Russian primary energy production grew at 6.7 per cent a year. "Chinese Economy Post-Mao: Jeint Economic Committee Congress of the United States."

All the participating com-

panies are in effect working without charge almost unpre-cedented in the oil industry in the expectation that they will stand a better chance of secur-ings blocks for further exploration and development when the Chinese put them on offer. BP has been told that their area adjoins an onshore structure in which the Chinese have found a commercially viable oilfield.

With a maximum water depth, for instance, in the area BP is surveying of 220 feet, the time lag between discovering a field and bringing it on stream could be as little as 11-2 years. That means that oil from the Yellow Sea or the South China Sea could be flowing by mid 1982. But the Chinese have still to make up their minds on the terms of an exploration and development law. Also they have to decide on the pace at which exploration is to preceed. What the industry fears is that they will let off a great number of blocs at the same time, causing a rush on rigs which would greatly increase the cost of exploration and development as bappened in the North Sea.

The possibility of long delays has been strengthened areas in the South China Sea. delays has been strengthened Atlantic Richfield has on by the Japanese experience in exclusive survey programme the Gulf of Bohai. Having

south of Hainan island and reached an initial agreement Amoco is the operating company in a survey to the west. the shallow waters of the Gulf, further negotiations ran into deadlock. Disagreements arose over the financing of the venture and the interest rates

on Japanese loans. The quantities of oil that China will have available for export in the 1980s will depend not only on the success of the offshore programme but also on the pace of onshore development and the strength of domestic demand.

The CIA summed up its 1977 study saying: "On balance we believe that China will produce 2.4-2.8m barrels a day by 1980. Most of this oil will be needed for domestic consumption: exports are likely to be only 200,000-600,000 b/d. Within a decade or so, continuously expanding domestic demand will total capacity unless deposits in the west or offshore are proved and exploited much more rapidly than expected."

Difficulties

In 1978 China produced 2.08m b/d, which was 11 per cent higher than in 1977. But the rate of increase in production last year is well below the 20-25 per cent a year that China achieved in the decade 1965-75 as a result of heavy investment in oil at the expense of coal. Oil output was up only 3.6 per cent in the first six months of 1979 as against the same period for 1978. This slowdown in the rate of growth would seem to reflect difficulties that the Chinese have run into exploit-Chinese have run into exploit on increasing domestic produc-ing their existing fields as well the matched by the rising pace as some attempt to slow down of comestic demand. Hopes for the pace of domestic consump-tion. The main technical diffi-raid 1880s are pinned entirely culties are believed to be set on the uncertainties of what backs in secondary recovery the international companies disthrough water injection in the major Daging field and the obsolescence of much of China's exploration, production and refining equipment.

China's production came from the area suggests that this are three fields in the north and north-east — Daqing, Shengli and Dakang, all developed with Russian designed equipmentwith Daning alone goes

for 54 per cent of output and 85-90 per cent of crude oil exports. Most of the oil from this area is a heavy waxy crude that needs catalytic cracking, for which few refineries outside China are equipped.

China are equipped.

Chairman Hua in the plan he announced to the National People's Congress in 1973 declared that China must develop another 10 major oilfields comparable to Daqing by the end of the century, which implied a production conduction implied a production goal of 10m b/d by the year 2000. The goal of another 10 Dagings has been tacitly dropped.

Peking has since claimed to have discovered a major new oilfield in western Xinjiang on the edge of the Tarim basin, and there have been some reports of China's shifting much of its onshore development to the west. The snag is that the cost of piping oil from the west to the industry of the east would be prohibitive. China has also announced discoveries in the Gulf of Tonking, hinted that it has made finds near Shanghai and claimed sizeable deposits in the Gulf of Bohai But at present rates of produc-tion and development it would seem that the CIA's estimate of 2.4-2.8m b/d production by 1980 is too optimistic. On the other hand the prospects for higher rates of production in the mid and late 1990s through the faster development of offshore fields have sharply im

Domestic consumption in 1978 amounted to 1.7m b/d, which was 3.3 per cent up on the previous year but well down on the average 9.5 per cent annual increase for the years 1973-78. The slower rate of increase last year came at a time when in-dustrial growth was running at the high level of over 13 per cent. This would suggest that the Chinese are making strong efforts to cheek domestic oil consumption and increase exports, mainly by substituting coal for oil-fred power stations. There is still plenty of room for this. Oil as a proportion of primary energy produced in Caina rose from 3 per cent in 1952 to 20 per cent in 1977, reflecting in part China's heavy investment in oil-fired power stations. But domestic demand for oil can nonetheless be expected in future to grow more sharply then last year as industrial growth earth picks up momentum, road transport empands and there is increased mechanisation in the country-side. China could easily be consuming 2.5m b/d by 1995.

China's net oil experts, both erude and products, for 1979 amounted to 380,000 b/d, compared with 280,000 b/d in 1975. In 1977 China earned \$1bu from oil or the equivalent to 13 per cent of export earnings.

The Chinese have consistently moved their prices in line with OPECs. The bulk of their oil has been sold to Japan, with smaller deliveries also to Hong Kong, Thailand and Singapore.

The long-term trade agreement with Japan calls for deliveries of crude of 150,000 b/d this year, rising to 300,000 b/d by 1982. The Chinese have also made a deal with Eracil that provides for exports of 20,000 b/d this year, rising to 30,000 b/d in 1980, in exchange for pig iron. A small contract has also been made with the U.S., and China continues to look to sales to Hong Kong and South East Asia.

In the next few years Chica is unlikely to expand its oil exports significantly beyond the relatively small quantities now available given the constraints the international companies dis-cover of shore. At this earl: stage the prospects there are described by one expert in the exploration. production and cil industry as "moderately ex-refining equipment. couraging." The strength of the interest in the oil industry is mate may be unduly carriou-*China Oil Production Pro-pects CIA 1977.

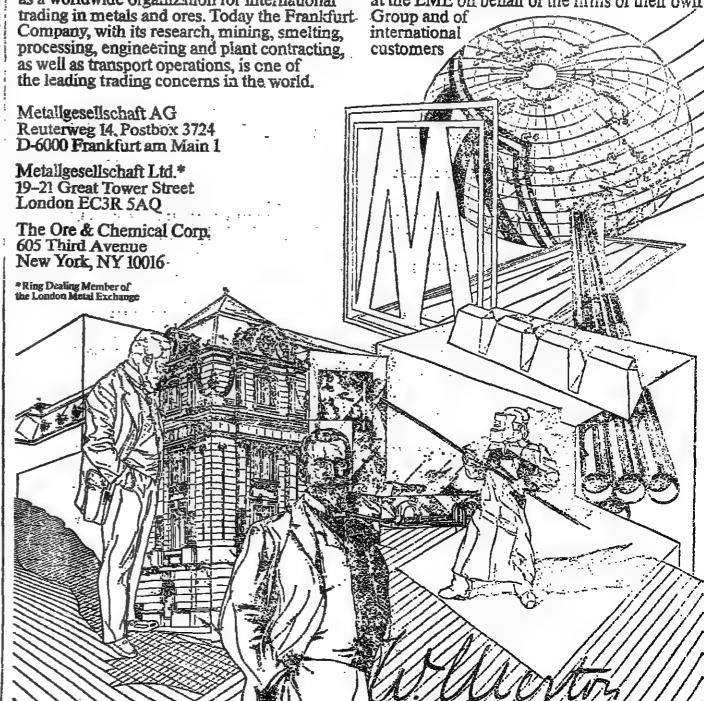
Get a clear view of China from Hong Kong Hong Kong is uniquely placed as a channel for trade with China. The Hongkong and Shanghai Banking Corporation, with headquarters in Hong Kong and operating continuously in Shanghai since 1949 is ready to help and advise you on doing business with The People's Republic. Ask those who know Our booklet on China sets out the basic information you will need for doing business in China. If you want this, or more detailed briefing, why not make immediate contact with: Christopher R Page Assistant Manager, China Desk The Hongkong and Shanghai Banking Corporation I Queen's Road Central, Hong Kong Telex: 73205 HSBC HX 欲知沓港上海汇丰银行各项业务详情。 请治:香港皇后大道中一号,香港上海汇丰银行 THE FOREKORE BANK
THE HONGKONG AND SHANGHAI BANKING CORPORATION
THE BRITISH BANK OF THE MIDDLE EAST
MERCANTILE BANK LIMITED
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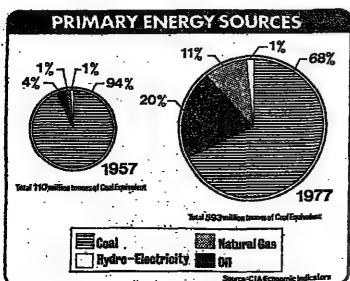
"No publicity whatsoever is associated with our trading activities. On the contrary.".

This was how Wilhelm Merton, founder of Metallgesellschaft in Frankfurt, described the style of his Company. A spirit of enterprise, stability, watchful observation of the market and shrewd planning provided even at that date the impetus for the launching of Metallgesellschaft as a worldwide organization for international trading in metals and ores. Today the Frankfurt. Company, with its research, mining, smelting, processing, engineering and plant contracting, as well as transport operations, is one of the leading trading concerns in the world.

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Kingpin of future power plans

COAL

COAL WAS king in China last year. Xiao Han, the Minister for Coal, announced plans for the doubling of output by 1987 to 1bn tonnes a year. Orders for mining equipment amounted to Sibn. A Sibn protocol was signed with Germany for building and equipping five new deep mines and two open-cast mines. Britain was also led to believe that the Chinese had in store for it orders worth several hundred million dollars to develop new mines.

All this was a much needed recognition that without major new investment in coal, China would not be able to solve its problems of power shortage. But as with steel, China's ambitions well outstripped its capabilities. Most of the mining ventures involving foreign participation have for the moment been aut into limbo as the Government re-assesses what mines wants to develop and what for mining equipment.

Indications are that there will

Between 1960 and 1975, however output grew at less than
3 per cent a year—a pace worfully inadequate for China's
on the rail network where coal fully inadequate for China's rate of industrial growth even though smaller budgets for coal were offset by higher invest-ment in oil. Output picked up in the early 1970s when renewed emphasis on coal was also reflected in the purchase of \$100m to \$200m of foreign mining equipment in 1973-74. But the industry was badly hit by strikes and slowdowns during the political chans of 1976 and also suffered a major loss of output the same year as a result of the Tangshan earth-

Indications are that there will by the authorities surprisingly. It is not clear, however, how far a clearer picture of the level did not include coal—an omis-before. December last year, of future investment in coal in soon that suggests a poor per- when the overall retrenchment the autumn. That would fit formance. The annual plan for in the economy was begun, that

Hydraulic pit props being made at the machine shop of Tatung coal mine in Shansi province

in nicely with Chairman Hua's visit to Europe. But even then it is more likely that the Chinese will see in motion a round of new negotiations rather than enter into major new contracts.

China's massive coal reserves are matched only by those of the Soviet Union and the U.S.

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of the freight traffic. But in the long run the Chinese are looking to a substantial increase in output with a view both to switching more power stations to coal firing-and thus to freeing oil for exports-to increasing exports of coal and to meeting industry's growing demands.

Targets

The targets set by the Coal Minister (and effectively backed Production climbed by 12 per Minister (and effectively backed cant both in 1977 and last year by Chairman Hua, who called to 618m tonnes but now seems for the development of 8 new to have peaked. The extensive coal bases in his list of 120 half-yearly production figures major capital projects) were for January-June 1979 released clearly beyond China's capacity.

and not a little unscrupulously exploited the enthusiasm it aroused abroad to enlist the aroused abroad to enlist the help of Western and Japanese companies to demonstrate equipment and provide consultancy services for which it normally would have had to pay. Comparing notes after the slow-down had become clear, British, German and Japanese companies often found that the

Chinese indicated that they wanted Britain to design, construct and equip two large much as personal as personal as their foreign exchange expending as much as pessibility of manufacturers have interested in British participation in participation in the partici that they were interested in British participation in the development of several other large mines which would have involved equipment orders running into hundreds of millions of pounds.

As delegations passed to and fro between London and Peking. they also added a coal analysis laboratory in Shanxi province, a testing laboratory for equip-ment and consultancy over methane drainage. In November the National Coal Board signed a memorandum of understand-ing with the Chinese for pre-planning and feasibility study at Datong, which would have been carried out by PD-NCB. the Board's consultancy division jointly owned with Powell Duffryn, and which also spelt out China's interest in securing British involvement in other Before the visit of Mr. Varley.

the then Secretary of State for Industry, to Peking in February, the Chinese began to shift their ground by adding demands that purchases of equipment should be paid for in part by coal to the shipped to Britain. In the spring, after the NCB had done a great deal of preparatory work, the Chinese announced that they could not receive a further negotiating delegation from the NCB until the revision of the national plan had been completed. Indica-tions now are that the Chinese are likely to set a date for the

Through our Representative Office in

ing 62m tonnes of capacity through five deep mines and two opencast lignite mines in Hubei and Anhui province. Among the German groups involved were Krupp, Orenstein and Koppel, Demag and Thyssen Industrie-Perchautechnik Bergbautechnik.

Little has emerged as yet of China's revised long-term plan-ning for the coal industry. The focus will almost certainly remain the opening up of new mines and the enlargement and mechanisation of existing major

shipment of coal from China in a massive \$100 of which about January which seemed the pre- 50 per cent came from West lucie to further purchases. The Germany, Much of the German long-term trade agreement with equipment is believed to have Japan provides for deliveries of been for new open-cast mining up to 5.3m tonnes of coking coal in Jilin province. and 3.9m toruses of ordinary. Dowty Mining of Britain sold coal over the next five years. FSIm worth of roof support Britain has fold the Chinese that systems, armoured face con-Chinese had proposed to them mechanisation of existing major the same mining project and that they were effectively being asked to pass judgment on each other's schemes.

mechanisation of existing major coal over the next five years. FSIm worth of roof support coal to the Chinese that systems, armoured face continuities of the country in the early 1960s.

China but that it is prepared to Gullick Dobson and Anderson help China improve its overseas. Strathchde also made smaller help China improve its overseas

existing mines. The Chinese As against the diminished also want to finance their but more realistic prospects of mining imports through cheep future Chinese capital purious through the coal industry. As against the diminished but more realistic prospects of credits and compensation trade. chases for the coal industry, Germany took a 21,000 tonne, orders last year amounted to

In Britains case entiusiasm was aroused during the visit to Peking of the industrial delegation led by Mr. Edmund Dell, the then Secretary of State for the then Secretary of State for Trade in August less upon the stations and others to the laye much to spare beyond exist. Support systems — a dear to the laye much to spare beyond exist.

sumers such as the iron and non-ferrous metal industries. A major problem is to increase the supply of high-grade coking coal as China's coking coal deposits

are of poor quality.

-About half of China's coal output comes from the north and the north east, with Shanzi province alone accounting for 70-per cent of the nation's reserves. Coal resources in the west and south have not been extensively developed. A third of output is still produced by small, often uneconomic and inefficient. mines that are a legacy of the Great Leap Forward. It is these that the Government would like.

Blackouts a regular order of the day

ELECTRICITY

mon occurrences in parts of the city and some factories have to work siternate days. Outside Shanghai, the steam turbine factory—one of the biggest power equipment manufacturer in the country-is forced to operate three shifts in a day. In Wuhan the giant new steel complex is virtually idle.

Electricity in Peking says that construction work has now been industry as a whole has a 15 slowed down. The director, per cent shortfall of its requirements. The well informed Hong of Electricity in Peking, Iwants Kong journal Cheng Ming puts foreign collaboration in designing references in Ministery and the construction of the Ministery and the construction of the Ministery and the construction work has now needed. The director with the blessing of the Ministery and the construction work has now needed. The director with the blessing of the Ministery and the construction work has now needed. The director with the blessing of the Ministery needed to choose a partner is to be a solution of the Ministery needed to choose a partner is the solution of the Ministery needed to choose a partner is the solution of the Minist terial speeches to power as "the one reason for the slowdown, weak link" in the economy underlie its importance as a con-laboration has only recently on economi

lining the national economic plan for 1979 to the recent Nutional People's Congress. said that steel production was being held down to enable more power to be diverted to light industry. He warned that fuel and power supplies would remain tight "for a fairly long Power output is scheduled to grow this year at 7.2 per cent or below the planned 8 per cent growth in industrial output.

Network

Peking is aware that there is no short cut to getting any substantial increase in power generation. New coal mines need to be developed and the rail network that handles the bulk of coal traffic vastly im-proved. Hydroelectric plants take years to build and will require enormous investment in transmission lines. The domestic power equipment industry is some 15-20 years behind the west in its technology. Imports of power plants from the west and Japan, which increased sharply in the early 1970s. fell off in 1976 and 1977 and are still running well benind what is needed to prevent power shortages from further restraining industrial growth.

Indicative of some of the difficulties that have to be faced are the problems of the Steam Turbine factory at Shanghai. Accoladed last year as one of the "Daqings" of Shanghai— at a time when "Learning from Daging" was still in fashion— it is a seemingly well run enterprise with a workforce of 8.000 that produces mainly 50 MW and 125 MW turbogenerator sets as well as one or two 390 MW sets a year. The 25 MW sets are serially produced in China and are the backbone of most large, Chinese equipped power stations. Only a few Chinese made 300 MW

units are in use.

Production at the plant reached a peak of 1.700 MW in 1973, and the target for this year is only 1.500 MW. The numerous machine tools undergoing repair or alteration bear out the director's claim that priority is now being given to improving quality rather than increasing volume. Quality was poor in 1973, he adds.

The high pressure 125 MW set was designed at the plant, he says, on the basis of the same Czech technology used to manufacture medium pressure 25 and 50 MW sets in the 1950s. The result was that the factory ren into problems of turbine breaking. vibrations and low fuel em-

ciency. Some of these diffi which will be reflected in more rapid development are the cuities have still not been further power shortages in years. Longrangais hydropower station was inadequate.

Behind the plant is a half finished extension in which the Throughout China a visitor factory and planned to build gets continuing first hand evidence of the seriousness of the still being tested in China. The dence of the seriousness of the still being tested in China. The the type of coal to be used, but country's power shortage. An first units had been scheduled the prospects that the projects official from the Ministry of for completion in 1982-83, but will eventually go ahead still been encouraged Vice Premier Yu Qiulu, out- first began on the site, the official line from Peking was self sufficiency as preached by Mao's wife and the other radicals.

Domestic equipment manufacturers provide the bulk of China's additional new power capacity. Last year they in-creased output of power generating equipment by 52 per cent to 4.800MW-a remarkable rise even in a year of fast recovery. But by no means all of this would have resulted in a net gain to enpacity. The Shanghai turbine plant says that 20 per cent of its output goes to re-place obsolete or broken equipment. Nationwide. American estimates are that some 30 per cent of production of new gent erating equipment is used for replacement purposes.

In increasing thermal generaling capacity China will also have problems in switching over to coal-firing. Vice Premier Yu Qivil, in his address to the congress, emphasised that former coal-fired generating sets that had been transformed to all must now be changed back. But at the Min Hang power station near the Shanghai Steam Turbine Plant, the coal-firing equipment had been destroyed during the Cultural Revolution. officials at the station said. Similar action must have been carried out all over China at a time when Peking was nutting its weight behind more oil fired power stations.

In the 1971-75 period China tried to make good some of its shortfall in generating capacity and to upgrade its technology by foreign imports. Some \$350m worth of plant was contracted for to add 4,500 MW of capacity. But in 1976 and 1977 there was a histus in major new orders

removed. He says that the to come Peking resumed pego on the Vellow River, Baishan design of the 300 MV set was tiations for large orders with hydropower in the north-east, also hased on upgrading Czech Western power suppliers last Dahua hydropower in Guangi also hased on upgrading Czech western year, but many of these have Zhuang technology. But it seems clear year, but many of these have Zhuang there is year, but many of the long there is year, but many of the long there is year. The large the year of the long there is year. The large the year of y stations—one that would have originally comprised two units of 350 MW near Peking and the other of two units of 660 MW. at Hsuchow in east central China. The Chinese have since raised doubts over the sites and

Shelved

What does seem to have been shelved for the immediate future are any plans for nuclear power stations.

hydro and coal-fired stations. China has the largest to be a few points ahead of the potential of hydroelectric powers rates of industrial growth if in the world and hydroelectric ladistry is not to be held back plant currently accounts for by shortages. about 28 per cent of installed capacity. The snag is that most of it is located in the west and thus would require an extensivetransmission network to carry it to the population centres. There are only three large grid systems in China, and China's technological capability in manufacturing transformers and switchgear is probably behind the rest of its power equipment

Among schemes picked out for-

expert on China's power in-dustry, has estimated that to dustry, has estimated that to support an industrial growth rate of 10 per cent China would have to have added last year 5,300 MW of installed capacity. In fact, the Chinese claim to have added 5,000 MW though industrial growth increased involved in the short run there are probably plenty of ways that China can make more efficient use, of its existing. efficient use, of its existing generating espacity and also conserve power. But in the long run China is unlikely to be an exception to the rule that has been found the case in most The official press has of late repidly industrialising countries ich is that the rate of power growth of electric power needs

> In the 1971-75 period generating capacity expanded at an appual rate of 11 per cent. There is no reason why this cannot he repeated. But there is now a substantial backlog of power shortage to make good. At the same time the delays over ordering new equipment from abroad in the last two years are likely to exacerbate this in the immediate future.

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The going is hard

FOREIGN CONTRACTORS

"DON'T IMAGINE that China is going to be a bonanza for the foreign contractor. It's a difficult and demanding market and it's only worth going in if your technology is strong and you're prepared for the long haul," says a British contractor.

. He adds "You may have to graft away for several years, spending a lot of money in the process, before you see any real

The Chinese are experienced pegotiators who do not take annecessary risks. They like dealing with companies the co know and trust. When they are thinking of doing business with a newcomer they want to satisfy themselves about his track record. They do their home-cases they would be senior, technically competent and they will be senior, they will be senior, they will be senior, they will be senior, they will be senior. they decide that one or two countries are leaders in the relevant technology—Japan and West Germany in steel-making plant the U.S. in large iron ore projects, Britain and West Germany in coal mining—and limit the choice of contractors accordingly. But this does not necessarily mean that the contract is

placed quickly. "It can take at least a year between the first nibble and serious negotiations about a contract, with numerous delegations going to and fro. But when the chinas chinese start negotiations, they are businesslike and straight technology or complete. forward. They can drive you mad on price, but they can be more flexible on the details of the order than most of the East

Before placing the latest batch of contracts with Lurgi the Chinese made a very careful study of what the company had to offer. "They gave us business in precisely those areas where we knew we were strong and avoided those where we were week," says Dr. Dietrich Natus, Lurgi's chief executive. "They have excellent knowledge of the Western market."

which will operate the plant. But one of the frustrations is the difficulty of knowing precisely where the decision-making authority rests.

Major purchases of foreign technology have to be approved by the State Planning Commission and it is at that level that some companies have directed their lobbying efforts. market."

In pre-contract discussions the Chinese expect patience and mutual respect. Mr. John Bing. manager of Pullman Kellogg's China operations, says: "One must realize the system does not move quickly. One must always act reasonably. We all brow we should be slow to

Lengthy

work thoroughly. In some cases people. And give them the authority to take decisions if they have to. Send them without a fixed time schedule. Make their commitment to the negotiations their only commitment for as long as negotiations con-

> Trust and mutual understanding are only built up over time and this is one of the reasons why the Chinese have a high regard for companies like East Asiatic and Krupp which have made a long-term commitment

For the contractor selling technology or complete plants direct negotiations are normally held with the China National Technical Import Corporation (Techimport), with an active practical experience of the pro-role played by the Ministry cesses or the equipment. "They

which will operate the plant, are taking a quantum leap in number of companies have But one of the frustrations is technology."

It is difficult to tell from job titles what authority a parti-cular Minister or official may have. Even after the contract has been signed the contractor finds the number of agencies involved somewhat bewildering. "We are introduced to the director of this or that corporation or bureau, but we are never quite sure where he fits into the hierarchy or who his boss is — and we doubt whether the Chinese do either."

When work on the contract begins companies have to be prepared for far more detailed discussions than they would ex-pect in the U.S. "They hire you for your technical knowhow, but you still have to prove the validity of your technical discouraged from mixing socially proposals," says Mr. Les Trew, with foreigners, project director for Kaiser Engineers, which is providing engineering services for a big iron ore project at Sijiaying in Hebei province. "Review meetings which take two-three days in the U.S. may take at least three weeks in China. They are attended by hundreds of engineers who are very knowledgeable and want a full explanation."

Mr. Trew comments that although some of these enthis, since they can be sure that gineers "know more academic-their own commercial and technily than I do" about ore nical information is not being benefication, they have had no passed on to anyone else.)

In implementing projects companies may have to contend, not only with the bureaucracy, but with the deficiencies in China's infrastructure. Transporting heavy chemical plant into Shanghai, by barge up the Yangise and then to a remote wite where the utilities and housing are being created from scratch—that is a formidable undertaking and even the Chinese may underestimate the difficulties. Scheduling problems can be aggravated by the failure of Ministries to co-ordinate their

For the foreign engineer who stays on the site for months China has to be regarded as a hardship post. In one major contract the foreign technicians were allowed one week's rest and relaxation in Hong Kong every six months-more onerous conditions than are normal in, say, the Middle East. The sense of isolation is greater in China, where the Chinese engineers and managers, though always considerate and courteous, are

Aspect

Another aspect of the isolation is that contractors are given no more information by the Chinese than is necessary to carry out their particular con-tract; there is no general gossip about what other companies are doing or about the state of the industry. (Some foreign companies are not unhappy about passed on to anyone else.) nology, her raw material When companies send negotia- resources and vast home market, tors and technicians out to her record of prompt payment China, they have to be sure that and honouring contracts to the they are temperamentally as letter. A good many companies well as technically qualified for are convinced that if they are

Normal office accommodation in Peking is not available, but a

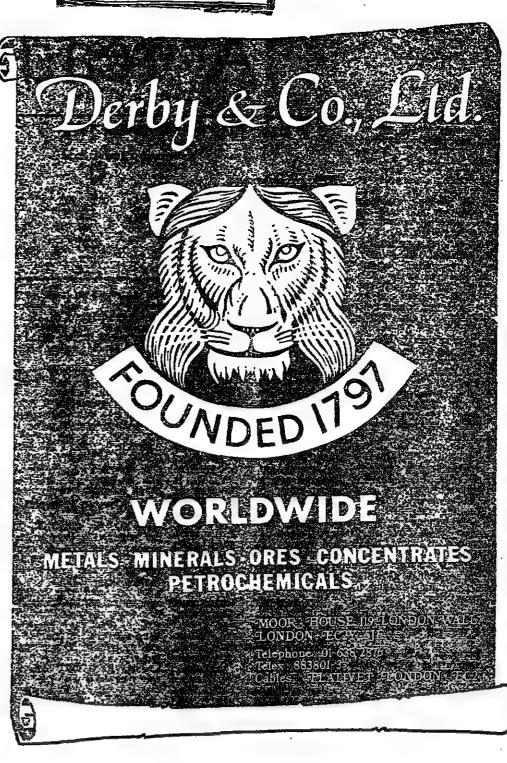
booked suites of rooms in one permanent basis, staffed either by their own representatives or locally bired Chinese speaking expatriotes. One Hong Kong company reckons to be spending about £50,000 a year ing a locally hired secretary, office manager, Another is fortunate enough to have hired a Chinese who has good personal connections inside the bureaucracy and so is able to arrange appointments for visit

The accommodation problem will be eased if and when the proposed Foreign Trade Centre is built. An American consortium, consisting of Kaiser Engineers, Turner International and Gerald D. Hines International, won a contract in March to design the Centre, which will include an office tower 40-50 storeys high, an 800-1,000-room hotel, a convention centre and living quarters for 600 foreign trade personnel and their families. Construction is due to start next year, with completion scheduled for 1982.

Commercially, however, conditions for the fureign contractor could get more difficult. China seeks to conserve her foreign exchange, payment arrangements may become more complicated, involving compen-sation trade, direct equity investment, more local procure ment, assistance with exports of Chinese-made products and per haps forms of technology transfer in which the foreign partner will see little scope for profit.

Yet the attractions of the market remain: Cidna's longterm need for foreign tech patient, persistent and flexible, the rewards will come.





Cutting through the red tape

VENTURES

ELEMENT in Lenin's Economic Policy in the early 1920s was the attempt to enlist the aid of foreign capi-tal, through joint ventures, in the development of the Soviet Union's raw materials and in the manufacture of industrial and consumer goods which the country needed. Although the policy was not successful and few agreements with foreign companies were concluded, Lenin's example provides a partial ideological justification for China's new law on joint ventures, adopted by the National People's Congress last month: Whether the law will have any more lasting consequences than the Soviet decree on foreign concessions, passed in November 1920, should me clear over the next few

Calma's law provides that foreign companies will be able to set up limited liability companies i jointy owned with Chiese enterprises, subject to authorisation by a new body, the Foreign Investment Control Commission; another new body, the China International Trust Investment Company, will co-ordinate the use of foreign investment and technology. The foreign partner will normally hold not less than 25 per cent of the capital (no upper limit is stated) and he may contribute "cash, capital goods, industrial property rights, etc." as his investment in the venture. The foreign technology or equipment has to be genuinely advanced and and appropriate to China's needs."

A joint venture equipped with up-to-date technology may apply for a reduction of, or exemption from, income tax "for the first two or three profit-making years." If the foreign partner reinvests his share of the profit in China he may apply for a partial rebate on income taxes paid. The law provides for the remittance overseas of profits and of salaries earned by foreign employees in the joint venture. As for the management, the Chinese partner will appoint Chinese partner will appoint the chairman and the foreign partner one or two vice-

The law on joint ventures is a logical development from other forms of co-operation with foreign companies which have been put into operation over the past two years and particularly since the spring of 1978; all these arrangements are designed to permit the introduction into Chinese industry of foreign equipment and knowhow in a way which minimises the expenditure of hard currency. The simplest form is processing on consign-ment, whereby a foreign company supplies raw materials to be processed in China for a are relatively low there is a sub-fee. In product buy-back or stantial electronics industry

the foreign partner supplies cities like Tianjin and Shanghai. capital equipment which is paid. There is certainly scope for for in goods manufactured by introducing up-to-date designs

National. Textile Import and Export Corporation whereby it would supply 100 modern sewing machines and 15 technicians world market. to a Shanghal apparel factory and receive in return 300,000 suits of pyjamas and a certain number of blouses every year for five years. Cotton will be purchased in China and the garments will be sold under Itoman's brand name; the production in China will replace part of Itoman's supplies now obtained from South Korea and

About a score of other Japanese companies have made sknilar arrangements, mostly lu textiles and garments but also covering electronic products such as digital watches. Companies in Europe and the U.S. have also made compensation trade agreements, but the most active have been Chinese entrefor whom China provides a much needed source of cheap labour and land. There are thought to be between 400 and 500 companies which have 500 companies which have either started production in China on the basis of compensation trading or are negotiating to do so. Most of these projects are very small, employing on average between 30 and 70 people, and there is a natural preference for the Shenzhen area just across the border from Hong Kong.

Discussion

Compensation trade may be used as a means of financing major investments in new mines for coal, iron ore and non-ferrous metals: proposals for development and aluminium smelters are believed to be under discussion along these lines with European and American companies. But the joint venture formula seems intended by the Chinese authorities for a different purpose — to inject foreign technology into manufacturing industry, particularly but not exclusively light industry.

Vice Premier Gu Mu told us in an interview that joint ven-tures would be especially welcome in such fields as elec-tronic instruments, meters, digital watches, computers and domestic appliances. One proposal which was well advanced even before publication of the law is for the manufacture of tape recorders in Shanghai by a Japanese company, Toho Denki, This proposal, which was negotiated with the China National Light Industrial Products Import and Export Corporation and the Shanghai Elec-Equipment Industry Corporation, provides for production to be split equally between exports and domestic

Although levels of technology are relatively low there is a subcompensation trade agreements already in existence in major

that equipment.

For example, in August last into these factories. But the year Itoman, a Japanese trading question which a number of foreign companies are asking is whether it is possible to achieve China's advantage of low

wages is largely offset by poor productivity, and some foreign companies are doubtful of their ability to increase productivity by a sufficient margin, even allowing for the introduction of incentive payment schemes. There are fears about the ability of the foreign executives to cut through the Chinese approach to management, described by a Hong Kong businessman as "a never-ending system of consulta-tion and discussion."

The fundamental the answer to which will only come through experience of joint ventures, is whether the Chinese political and economic presence of capitalist-inspired enterprises, geared to profit and to the market. While the human material is certainly trainable, the sceptics believe that the "system" will prove an insuperable obstacle; they prefer the less risky device of compensation trade, where their "investment" in the form of capital equipment is paid for in goods whose price and quality is contractually specified. Amid all these doubts It

would be surprising if the not slow and halting. Yet the potential of China as a manu-facturing base from which to attack Asian and other export markets cannot be ignored. For European and American manufacturers, eager to find a way of competing against the Japanese in South-East Asia, China may hold the key. As Taiwan and South Korea follow Hong Kong's example in moving up-market, the attractions of China as a low-cost production centre may increase. Some European companies believe that there may be scope in China for motor-vehicles and other engineering products which are produced in olume, using large amounts of labour and relatively mature technology.

Much will depend on how the Chinese authorities fill in the details of the new law and how they respond to the first proposals from foreign partners. Mr. Owen D. Nee, Jr., an American lawyer in the Hong Kong office of Coudert Brothers, who has been actively concerned in the discussions leading up to the new law, believes that it will be followed in due course by a patent law, a copyright law and in a few years' time by a full commercial law; he also expects China to join some of the major international trade conventions. If this forecast is correct, the legal framework for the foreign investor will become steadily more accept-

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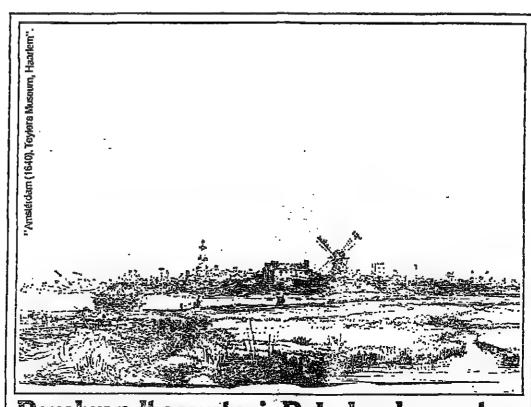
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A readjustment of policy

CHINA'S TRADE is one sector of the economy which so far shows no signs of the effects of the "readjustment" policy. introduced last February. Total of the economy which so far came to \$12.4bn (converted at \$1 yuan 1.72), over 40 per cent up on the corresponding period last year and well on the way to reaching the planned figure for the year of \$27hn.

Last year's total was \$20.6bn, over 30 per cent up on 1977, as much as the overall percentage increase expected this year. The target for imports for 1979 is 32 per cent and for exports 15 per cent, which both seem almost certain to be

Peking will clearly have a structure and its lack of tech-deficit on trade this year as it did in 1978. Last year, however, longer to solve than the money the overall balance of payments (which includes invisibles like tourism and, most valuable of all, remittances from expatriate Chinese to their families in China) was favourable. With the gap between exports and imports growing bigger all the time, this seems unlikely this year, but Peking will probably fund this out of its commercial

concluded approximately \$26bn in foreign credits, of which about \$3bn is in commercial loans from Western banks. The total includes about \$10bn from Japan, of which \$2bn was a commercial loan thought to Britain. Japanese plant purchases. So far, it is believed, there has been no drawing on the other credits.

In contrast to last year, when the Chinese almost signed more contracts than they could actually afford, a much more carefully planned trade programme is now under way. The "re-adustment" not only called for reductions in capital construction at home but froze all the negotiations the Chinese were involved in abroad. Since then the credit agreements have enabled the Chinese to go ahead with the purchases from Japan. and the continuing travels of Chinese delegations to Europe suggest that in due course at least some of the schemes previously under discussion will go ahead.

But while the foreign en-

| MAIN TRA | DING PARTN | IERS 1978 | |
|--------------------|---------------------|--------------|--------|
| | (\$m) Experts to | Imports from | (Taka) |
| T | China | China | Total |
| Japan | 3,049 | 2,030 | 5,079 |
| W. Germany | 995 | 367 | 1,362 |
| U.S | . 824 | 324 | 1,148 |
| Australia (11 mos) | 456 | 129 | 585 |
| USSR | 255 | 271 | 526 |
| Canada | 442 | 83 | 525 |
| France | - 197 | 227 | 424 |
| Italy | 188 | 199 | 387 |
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immediate reason for the freeze, there were other and more profound reasons, such as China's inadequate infraproblem, and it may be that countries other than Japan will have to wait some time.

Netherlands

Escalating

The rapidly escalating trade figures of this year are the outcome of orders placed last year, and though no breakdowns of statistics are yet available, it seems likely that the flow of After many months of specu- Japanese and West German lation, Peking has this year steel and equipment, plus the Japanese and West German substantial orders for grain have helped to swell the total. For mining equipment alone the Chinese last year placed orders worth \$1bn, \$500m from West Germany and \$200m from

Last year the Chinese were discussing with Western companies purchases of power equipment, steel plant, railway equipment, non-ferrous metals, mining plant, aircraft, chemical plant and vehicle production Almost all the Western lacked heen signed, with Japan and Germany the main beneficiaries. but many others have been deferred.

" Readjustment" equipment into production. the Chinese announced a new policy of agriculture first, but

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raw materials for it comes from agriculture. Light industry, argued the Chinese, is quick and cheap to set up, provides con-

currency. Thus they are now focusing on stepping up light industry exports and importing light industry equipment. This they plan to do either through joint ventures or compensation trading, both of which mean considerable saving of foreign exchange. However, compensation trade has not proved attractive to potential suppliers of heavy industrial equipment.

sumer goods for the home market and exports to earn foreign

The Chinese themselves are uncertain about how quickly modernisation. It seems unlikely that this year's rise could be anything like maintained, though some officials talk about a 20 per cent growth (10 per cent in real terms) over the next few years. Researchers in the U.S. Commerce Department have suggested a possible average growth of 20 per cent for luports and 12.5 per cent for exports up to 1985, with a debt for that year's end of \$26bn, which would fit with what the countries were involved includ-which would fit with what the ing the U.S., although it then Chinese have actually acquired diplomatic relations. in credits. This scenario also large contracts have postulates a 10 per cent growth postulates a 10 per cent growth in invisibles, rising through 15 has been growing extremely fast per cent in 1981-82 to 20 per since the beginning of last year cent for 1983-85.

cerned, the Chinese problem will calling for the exchange of reversal of trade priorities, be to hold them down. They \$20bn worth of goods up to Alarmed by the costs of invest- are unlikely to be able to afford 1985. Expansion, however, has ment in heavy industry and the to allow them to continue at this not been free from problems: long period needed to bring year's rate of growth of 33 per indeed there are now considergent. Grain imports are already at an all-time high at a reported for the further growth of two 12m tonnes. Yu Qiuli, the Plan-way trade (in 1980 and beyond). e::- closely allied to light industry ning Minister, said in his. The stimulus to Japan's ex-the development since much of the National People's Congress ports to China in 1978 was pro-

report in June that imports of are now doing) incentives to technology and equipment the peasants and improve their would this year be 220 per cent overseas marketing. As to oil, up on last year and would cost the Chinese need it themselves nearly \$3bn. Such a rate of are unlikely to have a surplus

This the Chinese evidently plan to achieve by spacing out tonnes annually by 1985.

Plan to achieve by spacing out formes annually by 1985.

Plan to achieve the perty for textiles they have their requirements over the next few years, cutting out some of their projected steel industry development. It seems unlikely that the pattern of imports will change much from recent years; the last year for which a break-down is available (1977) shows foodstuffs (mostly grain and sugar) at 17 per cent, industrial supplies (chiefly steel at 22 per cent) at 65 per cent, and capital goods 18 per cent.

But increasing exports will be the main headache. In 1977 36 per cent of exports were agricultural and a further 16 per cent textile yarn and fabric. Oil accounted for 10 per cent, and clothing, footwear and other light manufactures together for 20 per cent. What are the prospects for pushing up these items, or adding new

Agricultural products frozen rabbit; for example, or trade can be increased, essen- canned fruit — will do all right started to buy industrial equiptain its buge lead tial though it is for China's if the Chinese provide (as they ment, and where possible tariff Britain and Italy.

increase will manifestly have to except for sale to Japan, to be slowed.

Which they are already committed to the level of 15m

> secured a more generous quota agreement with the EEC and hope to do the same with the U.S. They plan to market their light manufactures more agressively in the West, starting with an export delegation to Europe this autumn which will seek professional marketing advice. They hope in due course to push up their exports of metals and minerals (in 1977 only 2 per cent of the total) but this will need heavy investment

China has already increased its formal trade links substan-tially. Last year it signed long-term agreements with Japan and the EEC, and since then Britain, France, Italy and the U.S. have signed individual trade pacts (though the U.S. one has yet to be passed by Congress).

Most growth seems likely to occur in trade with the U.S., where the Chinese have barely



A group of Japanese tourists in Peking. China is beginning to encourage tourism on an international scale.

changes will mean the Chinese. When the next round of difficult to compare prices. One can sell more, Japan is already. Chinese buying begins, the pictator that should not be forwell ahead of the field because ture may change somewhat as gotten is the role of the Soviet of its proximity and special Peking has invited tenders for Union, last year well up in the links, but the Chinese will certhe same plants from different table of trade partners. It tailly spread purchases around companies and countries and could well resume playing a for strategic reasons. Of the there is no indication yet as to part in China's industrialisation which is favoured. European countries, West which is favoured. As the since at does not nee Germany seems likely to main financing is becoming increase paid in hard carrency, tain its huge lead over France, ingly complex, the Chinese are

since at does not need to be

 \mathbf{CM}

Time to draw breath

TRADE WITH JAPAN

JAPAN'S TRADE with China when the two countries signed . As far as imports are con- a long-term trade agreement able doubts about the prospects The stimulus to Japan's ex-

vided by the start of China's cent over LIBOR, the Japan economic modernisation pro- banks decided to offer China gramme which led to a sharp increase in purchases of Japanese machinery and capital equipment (up almost 200 per cent over the 1977 figure). The framework for trade expansion was provided, in large part, by China with a \$2bn credit line the two-way trade agreement on which drawings would be (signed in February 1978) repayable over four-and-a-balf which called for an equal exchange over eight years of Chinese oil and coal for Japan-ese industrial plant and con-

struction machinery.

The agreement was the first in the history of Sino-Japanese trade relations to commit Japan to long-term targets for the purchase of Chinese oil and coal (previously purchasing has been done on an annual or semiannual basis). It was decided in March 1979 to extend the agreement up to 1990 (from the original 1985 terminal date) and to expand the value of goods to be exchange from \$20bn to between \$40bn and \$60bn. Details of this extension still have to be settled, however, and may remain undecided for some time to come. Both the 1978 and the 1979 version of the agreement exclude the more traditional items of Sino-Japanese trade including steel and fertilisers (from Japan) and agricultural products.

Contracts

Following the signature of agreement in February, 1978, China began to place a series of plant contracts with Japanese suppliers, starting (in May) with the signature of the \$2bn contract for the Baoshan integrated steel plant (for which the main contractor is Nippon Steel Corporation). The Baoshan contract was followed by 23 other plant contracts ranging in value from \$200m downwards. The total value of contracts won by Japan during the year was over \$2.6bn, with payment to be made for the most part in cash, since China and Japan were unable to agree on the currencies or interest rates to be used in deferred payment financing.

The flood of Chinese plant contracts diminished sharply at the start of 1979 and in February the Japanese exporters re-ceived their first major shock since the signing of the longterm trade agreement one year earlier. Companies involved with 22 out of the 24 contracts signed in 1978 (including that for the Baoshan steel plant) received telexes from the Chinese state trade corporation which had ordered plant informing them that import licences were not being granted by China's Ministry of Foreign Trade and that, therefore, the implementation of the

contracts was being suspended. The Chinese telexes alluded to delays in the completion of negotiations on various loan proposals made by Japanese banks to China as one of the main reasons for the withholding of export licences. These proposals included an offer by 22 Japanese foreign exchange banks of a \$2bn syndicated loan at an interest rate of 0.75 per cent over LIBOR (deemed un-acceptable by the Chinese, who

were demanding 0.25 per cent). The suspension of some \$2.6bn worth of 1978 plant contracts (coupled with rumours that the contracts might be cancelled altogether) caused something approaching panic among Japanese plant exporters and trading companies (for whom the Chinese orders represented by far the largest chunk of overseas business they had secured during 1978). It also had the effect of putting heavy pressure on the cautious Japanese banking community to compromise with China over the terms of its proposed \$2bn

After learning (in April) that number of British banks had initialled five-year loan agreements with Chilna in which the interest rate was set at 0.5 per reactions).

syndicated loan.

a similar rate and China accepted. The result was the signature of a letter of intent in May in which 22 Japanese banks, headed by the Bank of Tokyo, undertook to provide years at 0.5 per cent over the six month LIBOR rate. A second group of 30 Japanese

banks undertook to provide short term credit line of \$600. (repayable over six months with an interest rate of LIBOR phis 0.25 per cent). In a third, almost simultaneous agreement the Export-Import Bank of Japan undertook to make a Y420bn development loan to China for use in the dev ment of Chinese oil and coal resources (needed for China to produce the oil to be shipped to Japan under the long-term trade agreement). The eximbank loan was extended on exceedingly generous terms (a 6.25 per cent interest rate and a 15-year repayment period). These were justified by the claim that the loan was "mitied" -Le. China was not obliged to use the ex-imbank's yen funds for purchasing machinery and equipment in Japan.

After the issue of letters of guaranteeing long and short-term loans to China, the majority of the companies which signed plant contracts during 1978 were notified that their contracts had been "reinstated" on the original cash payment basis and without any change in the price or terms of the original contract. This news came as a relief to most companies, despite the fact that the four month delay caused by the suspension announced in February had involved the Japanese exporters in heavy extra costs (due in part to the impact of inflation on original cost estimates and partly to the fact that work in progress had been halted while the future of the contracts was in doubt). Two contracts which were not reinstated by the Chinese on the original terms were the Baoshan steel contract and a Y15bn petrochemical plant contract signed by Toyo Engineering Company and Mitsui Bussan,

Downstream

The petrochemical plant contract was excepted by China from the general reinstatement of other contracts because of the involvement of the Peking Municipal Government in down stream plants connected with the project. (The Peking authorities, as of early August, were still apparently trying to raise funds to execute their portion of the scheme). In the case of Baoshan China asked for, and obtained, a change in the financial basis of the contract from cash payment to five years deferred payment. The payments are to be made in equal portions of dollars and yen, thereby halving the foreign exchange risk which China would have borne if it had undertaken to make deferred payments denominated entirely yen. The interest on the loan has been set at the OECD minimum of 7.25 per cent.

After tying up the loose ends left over from its 1978 plant purchasing spree, China signed three more plant contracts with Japanese companies in late June and July 1979. The three contracts were: a Y3bn cashmere processing plant to be supplied by Unitika and Mitsui Bussan, a Y900m special film plant from Chugai Boeki and a black-and-white TV tube plant to be supplied by Matsushita (for which no price has been pub-lished although the capacity is set at 1.6m tubes per year).

There then appeared to something of a lull as China published its law providing for the establishment of foreign joint ventures and awaited the Japanese (and other overseas)

CHINA JAPAN TRADE

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THE LONG-TERM TRADE AGREEMENT February 1978 version March 1979 revision 1978-85 Extended to 1990 \$20bn in two way trade China to export coal and oil Unchanged .

CHINESE EXPORTS (m tons)

Japan to export plant, technology, To be decided construction materials

| | Oil Coking coal Steam coal |
|--------------|--|
| 1978 1979 | 7.0 0.15-0.3 0.15-0.2 |
| -1980 | 7.6 0.5 0.15-0.2 8.0 1.0 0.5 0.6 0.6 |
| 1981 1982 | 16.0 p. 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1. |
| *. | (Post 1922 volumes to be decided by the end of 1921) |

Companies were studying the granting "automatic approval" Chinese law intensively in for an investment application. late July and early August but Japan's doubts about the initial reactions to it were not Chinese joint venture proposals especially favourable. It was could turn out to be similar to being noted in Tokyo that the the doubts of its banks about law left a notable number of Changes loan requests—in other questions unanswered about the terms on which foreign companies would actually operate (patent and taxation questions were among those which seemed to worry the Japanese side most). Uncertainties like these could raise legal problems for Japan's own foreign investment approvais procedure, which requires that the Government satisfy itself about the basic conditions, likely to affect the

profitability of a proposed over-

seas investment venture before

Japan's doubts about the words the Japanese will defi-nitely not stand aside if others decide to go in. However, it does seem likely that Japan will take its time before committing itself to the large-scale ventures in which the Chinese seem to be interested (for example, in the motor and electronics industries). While it hesitates there could be some loss of momentum in the development of two-way

Charles Smith

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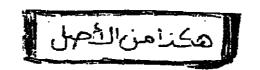
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Financial Times Monday August 20 1979 A taxing overhaul for company cars

BY DAVID WAINMAN

in the narrow sense, a more accurate word than challenge: the Revenue has merely issued a discussion paper, asking for taxpayers' comments. But it is clear that change is on the way. There are five areas in which

comments are requested; Whether, and when, the scale rates " could be adjusted

to more realistic levels. These scales quantify the amount upon which the great proportion of company directors and the higher paid are taxed in respect of the benefit described as the availability of a car for private use. And the Revenue indicates that the way in which the scales differentiate small cars from the more expensive ones is also under examination;

Onus on the employer

 Whether other changes should follow: for instance, could there be changes and simplifications in the present special rules for those whose business use of their cars is only very small, and also for those who drive more than 25,000 miles per annum on

• Should all of these changes apply also to taxpavers earning than £8,500 per annum as well as to directors and the higher paid? Broadly speaking, benefits not copable of being turned into cash have always escaped tax in the hands of those earning less than the threshold

tax legislation begins to bite; countenance a system which

Whether tax should be paid undermines Government politax legislation begins to bite; under PAYE, weekly or monthly, cles on saving energy by allowon whatever figure is determined to be the benefit-and here it is suggested that instead hitting their pockets.

THE "PERKS" of a company of the Revenue achieving this by car and free petrol on the company are under question by the Inland Revenue. Ouestion is. onus should be put on to the employer to deduct lax by reference to the actual benefit received by each employee in thus taking into account any change in the car available to him, or in his use of it;

· How petrol could better be taxed. The Revenue acknowledges that the present state of the law is uncertain, even though it may have its own views of the effectiveness of arrangements, involving comgarages, credit cards and other similar schemes. It indicates that it would be a prerequisite of any new arrangements de-vised that there should be a further tax charge where the employee received without cost not only the car, available for private use, but also the petrol so consumed.

All of these questions arise from the Government's objective, stated in the Finance Bill debates, to discourage further growth in fringe benefits and if possible to bring about a contraction. Company cars available for private use as well as for business journeys, have undoubtedly been the form of three years. And that growth one who uses the roads at week too obvious in the petral consististics; figure at which this part of the makes it clear that it cannot

But taxpayers and their employers might well counter by asking why it is that there has been such a growth in the pro-vision of company cars? And the answer must lie largely in the rewriting in the 1976 Finance Act of the benefits legislation — coupled with the employment background against which that rewriting took place.

The Revenue was already concerned, before 1976, at the administrative load created by toxing directors and the higher paid on the running costs of the cur and on its "annual value," (then taken to be one eighth of its cost). But the tax charge was only on a proportion of run-ning costs and annual valuethe proportion of private mile-age to total mileage.

Revenue guess on benefit

A computation was therefore required from every user of a company car every year. It was impossible in advance of this for the Revenue to do more than guess the level of benefit. And it was clear also that the Revenue thought that the figures, when it obtained them. vere no more satisfactory as a hasts of taxation than its perk in which there has been carlier guesses. It depended the largest growth over the past upon the taxpayers' accuracy reporting private mileaur. is very clearly visible to every- an area in which amnesia often seemed to be thought acceptindividual being jailed for misthe Maring the private usage of his altered. Revenue's discussion document car, but the Revenue was unhappy about its ability to enforce the law. And taxpayers generally thought both the law itself, and the Revenue's operation of it, disreputable. ing some (axpayers their private

TAX AND THE COMPANY CAR Revenue recalculation based on AA Taxable scale benefits in figures for 1979 respect of availability of scale with running costs cars for private use benefit for 8,000 miles Cars with an original market value up to £8,000: 198 1301-1800 cc 695 Over 1800 cc 1,044 Cars with an original market value over £8,000; 550 1,732 Costing between £8,000 and £12,000 880 Costing over £12,000 2.417

benefits legislation and substituted completely rewritten provisions: new might not be as accurate a description.

The basic framework sur-Only company directors and those earning over £5,000 (now £8,500) per annum were within these special provisions. Cash paid to them as reimbursement of expenses was to be laved, and so also were non-eash benefits provided. In this latter case, it was the cost to the company which was taken to be the measure of the employee's benefit. The company's "annual where the benefit consisted of allowing an employee to use an asset which remained rules for cars were significantly

and benefits could still claim, ris-a-ris the Inspector of Taxes, that the expenditure had been in 1976 Mr. Joel Barnett, incorred wholly, exclusively and age, until the car is four year-then Chief Secretary of the necessarily in the performance old, and 10 per cent theresiter

rationalisation and manpower-

Treasury, repealed the existing of their duties. And where the employer made available one of his own assets partly for business purposes, it also continued employee should pay tax only on the remaining proportion-the amount which directly

Before the 1976 provisions

This last had been the principle upon which all company cars had been taxed until 1976. It continued, with one minor change, to be the basis thereafter for cars the business use ends as well as during week- able by those laxpayers. There its property required definition, of which was insubstantial, day rush-hours. It is also only was one reported case of an and it is in this area that the taken to be 10 per cent of total use. The employee is, in this ease, currently taxed on the It continued to be recognised private mileage proportion of that employees made taxable running costs borne by the on all of these reimbursements employer and on the annual value which is taken to be 20 per cent of the car's original cost, without regard for mile-

For the great majority of cars, however, the 1976 legislation adopted a very different approach. Both annual value and running expenses were figure which was to be the sum to be taxed-without regard to business or private mileage. The legislation made it clear that it was the availability of the car for private purposes which was to be taxed, not 115 actual use.

Ingrained in the mind

But even here the concepts of business mileage were so ingrained in the Revenue's hinking that it made an exception for the employee who covered more than 25,000 miles per annum on business. pays lax on only one half of the scale figure.

Where the Revenue is now admitting that a slip-up occurred was in the fixing of the scale rates. The figures were based on estimates of one half of the standing charges and on running costs for 5,000 depreciation and interest on capital. The latter comprised repairs, servicing and tyres, but excluded petrol or diesel fuel, because, as the Revenue now makes cleur, very few employers were then providing free petrol to employees.

At the instance of the motor manufacturers all of the proposed scales were substantially cut back before the 1976 Finance Act was passed into law. This has not been com-pensated since. The only change has been a 10 per cent increuse, cars and claim a mileage allowin April, 1978, to recognise ance.



Jack Barnett . . . 1976 revisions

The view taken by many employers that the scales are a generous under-valuation is also significant. Employers know what is the true cost of providing a car (a cost borne in any event 52 per cent by the Revenue: but they have also miles. The former included been painfully aware over a road fund licence, insurance, number of years of the effects of pay restraint.

> The Pay Board never fully accepted the Revenue's measurements of car benefits as appropriate for pay restraint purposes-but many employers took it to be so. And the growth in the numbers of company cars was accordingly unrestrained. It was preferable, for those with low business mileage in particular, to have a company car rather than to use their own This could well now

Pay restraint is over, at least for the present. Tax rates have been substantially cut. The Government thinks it propitious to question, and by implication to discourage, "perks." In the context of the present energy crisis, private motoring without apparent cost or tax penalty to the motorist is an explosive a process as putting the petrol concern onto a bonfire. Small wonder the Revenue would be less embarrassed if the system could be changed.

First areas of attack

Cars and petrol were the obvious first areas of attack. The second and subsequent are more difficult. Season Perhaps, but this is a perk which few employers are thought to be providing: The inequity between employees living close to their work and those further out is 100 apparent. Free or subsidised mortgages? - again, perhaps. but Mrs. Thatcher has firmly committed her party to the continuation of tax deductibility of morgage increst, so that declar-ing the benefit taxable would seem to give a mirror image increase in the employee's deductions. The real benefit in this case is the assured availability of these very long-term loans. often with less regard paid to income levels than would be the case with a building society. and at lower rates than are

And will the Government review the perk which is so valuable that few people even deductibility of pension contributions, and their tax-free build up in the trustees' hands from then until they re-emerge as payments of pensions?

paid, net, by other borrowers.

Letters to the Editor

New Tap Stock

From Mr. A. Hughes time of the June budget, that so the "power of the Left." the accompanying rise of 2 per whatever that is, does not reside the accompanying rise of 2 per tent in minimum lending rate there.
to 14 per cent was, hopefully, to
be short-lived. This hope committees of the Lebour Perty scemed to be reinforced a little necessary increases in mortgage in all the main parties.

increase might not be necessary. I am accordingly surprised. therefore, at the issue (August 15) of the Tap Stock of £1bn et 11} per cent. The previous sold out last week, so that the Government coffers were awash, or would shortly be so, with enough money to cover the borrowing requirement for at least 2 few weeks. If so, why this rush to borrow more money

Of course, if someone in Government circles fears or knows that MLR, far from going fown, may have to increase further, that would explain any unworthy thought aside, however, I must ask why the Government broker did not elect to wait a short while for the expected fall in MIR to materialise thus enabling him to borrow more cheaply, thus in turn saving me, and other unhappy taxpayers, a considerable amount of future interest.

Obtaining

power

From Mr. E. Poettii. Sir. — When I was at Cambridge in the very early 1930s I read history and recall attending lectures on a subject known 13 " Political science."

One of the examples discussed by the lecturer was the newly created constitution of Italy by means of which Mussolini obtained and retained power. My recollection is that the peculiarity of that constitution, to which students' attention was drawn, was the election of the Government by the Party.

I have been waiting for some student of political science to write authoritatively in the Press comparing or contrasting (as the case may be) Mr. Benn's recent suggested constitutional proposals with the constitution of Italy in pre-Second War days and speculating on the consequences likely to flow from such proposals if adopted. E. H. Foottit. 23 Bayley Lane,

The Labour **Party**

From Mr. V Finlayson of the Tribune Group support, fincluding the recent Organisa-Jim Callaghan, the issue is not tion of Petroleum Exporting

of so-called Left-Right Countries' rise).

politics but something much less conscience of the Party to problems in carrying through a important. In as much as the cosure real argument? constituency sector at the last Labour Party conference voted 2:1 in favour of a 5 per cent policy on wages, they supported Bath. Aron. Sir,-We were told, at the Denis Roaley and Jim Callaghan

motoring without the real cosis

It is not general management scened to be reinforced a little that are "deeply flawed" but From the Managing Director later when the Government was leaning on the building societies democracy to be exercised by ... Sir.—I have read with partito persuade them to defer their only a few conscientious people cular interest your authorita-

rates until January 1, again In the main, constituency problems facing the steel industile indications being that as Lebour parties reflect the in- try in this country and overhate conservative attitudes of work the British voter as any Parlia-

Vic Finlayson. " Northcote, Lausdown Road.

Problems for

tive series of articles on the

that this department is staffed

Surely if this country had a serious intention of joining a

possible solar satellite project,

some basic and obvious steps

instance the solar cells that turn

sunlight into electricity are pri-marily made from silicon cry-

stals. It is very expensive to

grow these crystals on earth

because an artificial vacuum is needed. For this reason one kilo-

permanent vacuum of space

their price could come down dramatically. To test these and

other theories companies in Ger-

many and Japan have booked space on the NASA "shuttles"

which start taking off next

spring. The plan is to start silicon crystal growing "fac-

tories" in earth orbit by the mid-

Britain makes solar cells-Fer-

ranti. Not only does it have no plans to book experimental

space on the "shuttle" but the

silicon it uses in its solar cells

One is left feeling somewhat

bewildered as to why the Depart-

make a significant contribution

The Natural Energy Centre.

pany in Germany.

Paul McClory.

2. York Street, W1.

would be taken now. For

by realists.

mentary candidate knows. Alas Corporation is seeking to conthere is no coherent movement centrate production of tonnege or ideology behind the actions steels at a few large integrated of a few individuals who are steelworks to be operated on sigdrives. We would all be the levels, while elsewhere it moves better for it if there were, to a product-mix with higher Could not Jim Callaghan redraft added-value and thus a greater Michael Foot back to his potential for profitability, honoured position as the Because of the part

Mind-boggling satellites

From Mr. P. McClory

Sir.—I was very surprised to read a report (August 9) giving brief details of a Government anxiety to borrow more now, brief details of a Government before rates rise. Putting that as a long term solution to our energy problems.

Even if britain was a strong supporter of the European Space Agency such an idea would be amusing. As it is demonstrably not interested in the possibilities of even near-future projects in space engineering suggestion, on the face of it, looks derisory.
To get some idea of the sheer

magnitude of such a projectand the costs and engineering problems involved—the following projections by the National Aeronautical and Space Administration should be considered. The principle behind these solar satellites is that they would be placed in geosyn-chronous orbit (stationary) 22,500 miles above the earth. There they would be in almost continuous sunlight. Solar cells would convert the light from the sun to electricity and this would be beamed to earth in the form of microwaves. Ground stations would convert these back to electricity and feed this

Each solar satellite would be of mind-boggling proportions. Almost the size of Manhattan Island, they would be about 12 miles long and 3 miles wide. Each structure would contain around 36 sq. miles of solar cells but generate only 10MW of electricity (half the output of the smallest nuclear power station). NASA estimates that a construction team of 550 people would be needed working in deep space to build just one satellite. With such formidable statistics it will not come as a great surprise to learn that projected costs for such a venture are somewhat high. At present day prices the 100,000 tons of materials needed to be lifted 22,000 miles into space would cost about £25 a pound. A simple calculation shows that a typical solar-power satellite would cost in the region of £56bn! However, Sir. Further to your recent some U.S. reports consider this excellent editorial on the neces- figure far too high and feel it sity for a thriving Labour Party, could be reduced to around only you comment further on Labour 17hn! This happens to be near Party democracy on August 15. the total earnings of the UK In as much as many members from North Sea oil this year

reduction programme in Britain It seems probable that BSC will require a substantially longer time to achieve its first objective than its European competitors; the tonnage steel industries of North America, Japan. and the devoloping countries. are already operating at or below the manning levels which are presently no more than a distant goal for BSC.

Nor is this the full extent of BSC's problems. The rate of technological development in the international steel industry is such that the emerging third-world " steelmakers, who It appears that British Sicel in the last decade have largely rendered obsolete the European tonnage steel industry, are today commissioning the plants and acquiring the skills to pro-Tap, of £1.5bn, was suddenly motivated by inner psychological nificantly reduced manning duce the higher-added-value products on which BSC's future

strategy depends. There is disturbing evidence to support this thew in your recent report that a single shipment of stainless steel bars from Brazil represented some 20 per cent of British annual consumption and was being sup-plied at prices reportedly 40 per Yeu also mention that this cent below those current in this study suggestst hta many depart-

BSC's strategy is undoubtedly ments of Government, Energy, Industry and Trade, Home Office, earrest but to he successful it Health, Defence, Agriculture, needs to be implemented now Environment and the Foreign and not at some unspecified Office will be involved if such a time in the future. Time, tide, venture is ever undertaken. In and foreign steelmakers wait view of the level of expenditure for no man.

anticipated, why have the T. M. Barclay, authors of the study apparently Fine Tubes, excluded HM Treasury from Estover Works, their deliberations? Could it be Plymouth. Estoner Works, Crownhill. Plymouth.

A popular

From the Director. British Importers Confederation

Sir,-In reporting on the proposed manpower cuts at the Departments of Trade and of Industry (August 15) reference was made to the abolition of watt of sunpowered electricity was made to the abolition of costs about £10.000. But if silisurveillance licensing. Few con crystals are grown in the people who are not directly involved in importing can appreciate the significance of their removal.
The British Importers Con-

federation has always opposed national surveillance licensing and has considered it to be a time-wasting and costly exercise without the merit of providing the data for which it was introduced. It was claimed that by would be granted automatically. products would be indicating the volume of imports that might be expected to enter the UK. On various counts such reasoning is suspect and a much better barometer would be the data collected by the computers of HM Customs and Excise.

ment of Industry had to commission a "study" in the first place. A few telephone calls were all The cost of employing 20 unnecessary staff at the import that was needed to establish that Britain will never build one when compared with the extra solar-powered satellite, let alone cost on the nation's import hill the dozens we would need to brought about by the need for imnorters to keep experienced to our future energy demands. staff engaged on unproductive In any case it is unlikely that work and to pay demurrage even the Americans will build charges if the issue of licences one in the foreseeable future. is delayed.

Mr. Nott is to be congratu-Congress would never pass the £76m needed to build just one lated on pinpointing an area of station. Not, that is, until every building in the U.S. is properly Government expenditure that is hoth unprofitable and unpopuinsulated-surely a much better

investment for them, and for us. F. Ira Brown

Eritish Importers Confederation 69 Cannon Street, EC4.

Today's Events

UK: Confederation of Shipbuilding and Engineering Unions calls national one-day strike over pay and hours.

Post Office group executive of the Society of Civil and Public Servants meets to consider pay proposals.

Industrial civii servants' unions joint meeting to discuss possible industrial action. Postal rates rise-for inland letters (up to 60 grams) to 10p

(Brst) and Sp (second)

mentary Under-Secretary for Energy, visits UKAEA works at Windscale and Calder Hall, Cumbria Largest improvement action the North-west. Improving the of Greater aumed environment Manchester, announced.

First train teaves King's Cross on new Flying Scotsman service Edinburgh-scheduled to take 4 hrs 37 mins.

The Edinburgh International Festival opens (until September Mr. Norman Lamont, Parlia-

Third International Conference on the Mechanical Behaviour of Materials opens at Cambridge (until August 24). Overseas: Mr. Charan Singh, Final India's Prime Minister, faces vote of confidence in Parliament. UN conference on science and technology for development. Vienna (until August 31).

World Enterprise yachting championships, Sligo. Republic of Ireland. OFFICIAL STATISTICS

figures for July, Constructionnew urders (June) COMPANY RESULTS dividends:

dividends: interim Blagden and (Holdings). COMPANY MEETINGS

See Financial Frary on page LUNCHTIME MUSIC, London Plano recital by Geoffrey Saba, Lawrence Jewry Guildhall, 1 pm. Organ recital by David Poulter. Balance of payments current account and overseas trade

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Bank of Credit & Cmce. 14

Brown Shipley 14 Canada Perm't Trust... 14

Cayzer Ltd. Cedar Holdings

Choulartons

Consolidated Credits... 14

Co-operative Bank*14

Corinthian Secs 14 Credit Lyonnais 14

The Cyprus Popular Bk. 14.

Duncan Lawrie 14

First Nat. Fin. Corp.... 151% . First Nat. Secs. Ltd. ... 151% .

British
Petroleum...Sept. 7 Int. 7.796
British Vita ...Sept. 14 Int. 1.67
Britishins ...Sept. 8 Int. 0.7
Brown Bowerl
Kent...Sept. 21 Unt. 1

Kent. Sant. 2 . Int. 1
Cadbury
Schwappes...Sapt. 7 . Int. 0.85
Carpats Int...Sapt. 12 . Int. 1.0.85
Callins
(Wm.)...Sapt. 7 . Int. 2.088
Costain ...Sapt. 7 . Int. due
Croda Intl...Sapt. 16 . Int. 1.081
DaigetySapt. 16 . Int. 1.081
DeccoSapt. 6 . Final 8.595
Delta Metal ...Sapt. 21 . Int. 1.82
Dutton...

Dutton-Forshaw. Sapt. 14 Int. 1.25 Eagle Star. Sept. 20 Int. 3.35 European Ferriss. Sapt. 18 Int. 1.1

Metal...Sept. 19 Int. 1.75

Charterhouse Japhet.

A P Bank Ltd.

Bank of Cyprus Bank of N.S.W.

BASE LENDING RATES

Keyser Ullmann 14 Knowskey & Co. Ltd. . . 15

Midland Bank 14

Morgan Grenfell 14 National Westminster 14 Norwich General Trust 14

Rossminster
Ryl. Bk. Canada (Ldn.)
Schlesinger Limited

Security Trust Co. Ltd. Shenley Trust Standard Chartered

Trade Dev. Bank

Trustee Savings Bank 14

Twentieth Century Bk. 15 United Bank of Kuwati 14

Whiteaway Laidlaw 1418 Williams & Glyn's 14 % Yorkshire Bank 14 %

7-day deposits 117-%, 1-month deposits 114-%.

† 7-Say deposits on same of £10,00 and under 1312%, up to £25,000 12% and over £25,000-1272%.

EL-S. Schwab ...

P. S. Refson & Co. ... 14

Lloyds Bank

London Mercantile Edward Manson & Co. 15

Dunbee-Combex may hive off DIY side

Dunbec-Combex-Marx, the to: group whose profits fell sharply last year, is considering hiving off its do-it-yourself activities. An announcement is expected to be made at today's annual meeting. company's DIY activities in trading profits of around film last year on sales of nearly £20m and their flotation would enable the group to raise

necessary capital.
Mr. Richard Beecham, the joint managing director, declined to comment at the weekend, other than to say that "any statement to make will be made at the genual inecting."

On Friday, it was annound that Dunbee would be send its shareholders a new set of 19 accounts because errors had be found in the original versi These stemmed from the inc rect consolidation of subsidiaries although net worth and the results are unaffected by the

pre-tax ylumped last year from \$6.4m to

BOARD MEETINGS

gates of Board mechans to the Stock Exchange. Such meetings are usually hold for the purpose of considering dividends. Official indications are not revailable as to whether dividends are not that and the sub-divisions shown bolds are bused mainly as last year's timetable

Intenms-Charles Baynes, Blagden and Nother.
Finals—K. C. Bosrdman, Notion,
FUTURE DATES

| 410.1 | 53A AUG. | -2 |
|-------|----------------------------------|----|
| ent | Eucalyonis Pu's Mills Aug. | 3 |
| -44 | Homes of Fricar . Aug. | 2 |
| - :- | 1990s:man Truc: 6! Guernsey Aug. | |
| | Lambert Hower's Aug. | 2 |
| ccd | Un on Carperation Aug. | 2 |
| ing | Finals: | |
| | Christy Brainers | 4 |
| 975 | Kurssal Aug. | 2 |
| een | fred Investors Sec . | _ |
| on. | Suiter Electrical Aug. | 2 |
| | †Amonieć | _ |
| -36- | | |
| | | |

Because of the rapid growth of its too business. Dunbee has not pressed cheed with the expanion of its DIY and industrial fi.3m. with severe losses occurdivision, for which prospects man, said the Board would ring overeas, chiefly in the U.S., were described as "encourage present its opinions after the but also in West German, and Learly last year, it acquired the been received.

Decco chain of DIY wholesale largest in the country. It is not thought that Dunbee intends to float off any of its

other activities, and there are no plans to sell the Louis Marx operations in the U.S., despite the company's recent difficulties

Spillers Board says wait

Spillers has followed up its immediate rejection of last week's £73m bid from Dalgety with a letter to shareholders in which they are "strongly advised" to take no action until they have had their directors' comments.

The letter again says that the Spillers Board feels the offer is unlikely to be advantageous to the company, its shareholders or

Mr. Michael Vernon, the chair-

Sir Lindsay Alexander, chairman of Ocean Transport and Trading, which is tomorrow due to announce interita results for 1979.

Siebe Gorman set for growth

THERE are clear indications that company. deciand for the products of Slebe Gorman Holdings is continuing to grow both at home and over-seas. Mr. G. C. D'Arcy Biss, chairman, says in his annual

The chairman believes that the current year "will again manifest the progress that we have all come to expect of the group."

Despite trading difficulties at home and overseas during the last part of the year to March 21. 1979, tradia; results before nonrecurring exceptional expenditure and future provisions, show further progress and growth, and leave the group in a strong position, says the chairman.

After exceptional items of \$1.14m, profits before tax for 1978-79 amounted to £3,57m compared with £4.41m. Turnover was £48.4m. acainst £42.5m.

Protective and safety clothing contributed (in £'000s) £2.648 (£2,191) to trading profit; underwater, marine and selety equipment, \$1,444 (\$775); fire engineering, £156 loss (£245) profit: textiles, £148 (£501); footwear, £169 (£186) and rubber and plastic components. £171

In spite of further significant trading losses in New Zealand. the year proved to be successful in aggregate for oversous companies with the exception of Norway and Hong Kong where diffidismintion was caused by factory

Total present trading profits increased by 70 per cent, largely due to the profitable turn around dir-W sentel, lo sectione but Australia, the continued advancement in Germany and the good year experienced by the Itish

Valuation Monthly

East of Scotland Investment Managers.

ERRATUM

INVESTMENT TRUSTS TABLE PUBLISHED

17th AUGUST 1979.

Aborde-n Trust. Col. should read 43.6. Col. 6 should read 120.12. Col. 7 should read 126.87.

THE HOKKAIDO TAKUSHOKU

BANK LIMITED

("TAKUGIN")

US \$15,000,000

NEGOTIABLE FLOATING RATE CERTIFICATES OF DEPOSIT

MATURITY DATE AUGUST 22, 1984

in accordance with the profisions of the Certificates of Deposit

notice is hereby given that for the initial six month Interest Period

from August 16, 1979 to February 19, 1980

the Certificates will carry an interest Rate of 11 ..., per annum.

ARM Bush

FIRST CHICAGO LIMITED

Elsewhere in Europe, companies in Sweden. Denmark and Switzerland continue to give a good account of themselves by maintaining market share for UK manufactured error products.
At the year end, successful

negotiations were concluded with NZTS Heldings, a New Zealand group, whereby it purchased 50 per cent of the equity in James North and Sons (NZ) and underlook the day to day man-agement responsibility by integration into their organisation.
Meeting. Winchester House,
EC. September 17 at 12:30 pm.

CGFA A\$6.5m Eneabba deal

Consolidated Gold Fields Australia (CGFA) and its 62 per cent-owned Associated Minerals Western Australia with the pro-prosed purchase of Jennings industries mineral leases at Eneabha and of certain of that contrany's plant, equipment and facilities at Eneabba and

CGFA is 70 per cent owned by London's Consolidated Gold Fields group. Total purchase price is AS6.5m (53.8m) with an additional A8250,000 for the purchase of certain equipment sole rights.

aiready has large AMC reserves of rutile. Ilmenite and zircon in Australia and the Jennings deal is regarded as a significant step towards rationalisation of the Eneshba field-a

leases and AMC the plant equip-

The mineral sands industry is a recovery phase after a period of extreme difficulties. On August 3 AMC announced profits for the year to June of AS225,000 against a loss of AS2.75m in the previous year.

Specialist insurance broker formed

Due to the continued inter-national growth of the exhibition and conference industry and the complexities of its insurance requirements, a new insurance hroking contpany has been formed which will specialise in this class of risk.

The new company is Expo-Consolidated are expanding their Sure, based in Shrewshury. It mineral sands operations in was formed by its managing was formed by its managing director, Mr. L. S. Hunt, in association with the Wigham Poland. Group, the international insurance broker, which for many years has been closely connected with the exhibition industry. Mr. Hunt was responsible for the initial responsible development and marketing of the Acepian Conference and Exhibition Scheme for which the new company has acquired the

The insurance cover placed by Expo-Sure at Lloyds will cover exhibition or conference exhibition promoters and incliorganisets. vidual exhibitors, in one policy, for the insurable losses likely to occur including their contractue? major supplier to the world pig- liabilities to botel or venue

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Allman on

Airfix sees upturn

subsidiaries with production are improving their performances, says Mr. Ralph Ehrmann, the chairman, in his annual report. He acks that he believes the group is in a good position to deal with any problems, and should show considerable progress in the coming year. The

chairman expects turnover to increase again, and he hopes margins will improve. In the year to March 31, 1979 the company's taxable profits declined from £2.69m to £1.52m on sales ahead from £38.9m to

Mr. Ehrmann adds that two new export companies Crayonne Frankfurt and Crayonne in Milan have been set up as part of their policy of product innovation and improving marketing efforts, especially

The loss at Meccano last year remained at an unacceptable level and further steps are being taken to accelerate the improve-Airfix Footwear had an unsatisfactory year, says Mr. Ehrmann.

Its losses were £205.000. However current results show that the rationalisation policy will solve the problems, he adds. Net current assets are shown as £16.8m (£14.1m). There was a net increase in bank overdraft and cosh of £3.9m (£4.3m). Meeting, company's offices: Old Court Place, W, on September 18

SECOND BLD FOR EDINBURGH ICE RINK

Edinburgh Ice Rink was on

35.7 per cent stake in the Edinburgh company and owns curling rinks in the west of Scotland.

factory order book and those Ice Rink is still pendering a subsidiaries with production are recent offer from Murrayfield Ice Rink. Whereas Glasgow Leisurg is offering £1.60 cash for every 250 share of Edinburgh, the Murrayfield bid was three of its own £1 shares pius 50p cash for two shares to the Edinburgh concern. Taking the Murrayfield just over £231.000.

Phoenix life fund rises to £17.6m

A 43 per cent rise from £15.7m to £17.6m in the value of its menaced life fund the Wealth \spred Fund over the year to March 31, 1979, is reported by Phoenix Assurance Company. Investment income during the year amounted to £745,000, but most of the rise in value came from a \$1.75m increase in realised appreciation of the fund's investments.

At the end of the veriod, 45 nor cent of the particle was in I'K emities, compared with 43 rest at the hegirning of the year. The percentage held in property was lifted from 17 ner cent to over 18 ner cent and the remediace in TK fixed interest Increased slightly to 18 per cent. But heldings in U.S. securities were cut from 15 per cent to 9 the investment manager re-

norted that despite a 14 per cent rise in the Dow Jones index parerse movements in the dollar eroliance rate and the investmeri currente neenitum reculted investor of US securities. The the receiving end of a second and balved its commitment to bid yesterday, with Glasgow the U.S. and reinvested the sales Leisure offering a total of in TK citis in a series of deals \$211,000. The bidding company is con- is still held that the I'S holds trolled by Mr. James Glasgow, a evocitent prespects, but the businessman, who has built no a cuir's in the collar premium and

listing for Esselte SHARES of Esselte, the Swedish

London

office equipment, packaging, printing and publishing group, are to be quoted in Loudon. The company's free ordinary A" and "B" shares, each with nominal value of SKr 50. have a nominal value of SAT bu, dave been admitted to the Official List, following Esselte's 10-year \$25m 7{ per cent convertible subordinated bond lassie in

The bonds, already listed in London, are convertible on or after September 15 this year into fully paid "B" shares at an initial conversion price of SKr-159 a share. Esselte's free ordinary shares were quoted at SKr 163.50 at the Stockholm

close last Thursday.

Esselte, which paid \$82m last year for Dymo Industries, the U.S. company known for its plastic labelling systems, lifted. pre-tax profits from SKr 169m to SKr 231m (£24.5m) in its last financial year to March 31. Sales were up 40 per cent to SKr 3.43ba, but this included SKr 553m from 10 months of sales by Dymo. Excluding this and other acquisitions, sales were 13 per cent higher. For 1979-80, Esselte is fore

casting a further rise in turnover to SKr 4bn, an increase of 17 per cent, while pre-tax profits are expected to advance at a faster rate to around SKr 275m. Hambros Bank and Skandina-ciska Enskilda Banken are sponsors to the Esselte share introduction.

Utac formed as holding company

Utac has been formed as the new holding company for four British-based companies - OBL ductions, Charles King and Link

Utac's function will be to con-trol long-term planning and financial arrangements for the group, whose interests include export management, audio equip ment, motor sales and distribi tion, car care products and garage equipment distribution as well as agricultural equipment manufacture.

OBL has a mimover of 227m annum (1978/9) and the other three companies have a whined turnover of some The is looking to further

diversify its interests by the acquisition of manufacturing and fleribility of the group ex whole, while at the same firms strengthening the position of the m markets. litte is a largely autonimum

theidiary of UTC International of Switzerland.

Share information service

The following securities have been added to the Share Information service appearing in the Financial Times:—
Modern Merchandising (Sec-

the future performance of ster-tion have resulted in adenting a defensive posture in the market.—Hong Kong).

Blackman & Conrad recovery continues

THE current year at Blackman and Conrad should be one of steady progress overshadowed by the continuing high level of interest rates and other external factors, Mr. David Alderman, the chairman, tells shareholders in his annual report.

Referring to the return to profitability in 1978-79. Mr. Alderman says that from current information, it is clear that the recovery is continuing and

profits are now free from any subsidy.

In the year ended January 31, 1979, the group reported pre-tax profits of £80.664 compared with a £216,445 loss in the previous

While turnover was down from 19.9m to ES.07m, it was achieved by one-third less staff compared with a year ago, the chairman

The accounts reflect further reductions in bank borrowings closures of unprofitable units, also the elimination of certain unprofitable turnover. Current turnover is being maintained with staff levels continuing to

ne reviewed. The objectives of the Roard are to bring bank indebtedness to acceptable levels and thus the impact of interest on group results as well as to maximise productivity and return to the profitability of the past from a more compact group. Since the end of the financial further substantial year,

have taken place and borrowings for the first time in three years are under 11m. The sale of the Birmingham

factory for some £100,000 above book value has now been completed and other satisfactory offers for surplus properties and assets are currently under negoliation, the chairman states. The group makes children's wear, ladies' outerwear, industrial wear and casual cotton wear. Meeting, Bonnington Hotel, WC, September 10 at 11 am.

CORAL INDEX: Close: 470-475

INSURANCE BASE RATES

CONTRACTS AND TENDERS

NOTICE FOR

INTERNATIONAL TENDERS The Director General of the TOGO Postal & Telecommunications Board is calling for international tenders for the extension and modernisation of the serial and underground network of Lome. PURPOSE OF THE TENDER

1 Extension and modernisation of the Lome network

- supply of networks and public works equipment.

- execution of public works, installation and connection.

- switching of telephone subscribers to the new central telephone exchange.

2. Maintenance of network.

— participation in training of personnel

— supply of various equipment required to ensure the maintenance
of the network.

— quotation for various constructions (stocking of equipment)
when required

COMPANIES AUTHORISED TO SUBMIT BIDS Companies from member-countries of the Monetary Union of West African States (U.M.O.A.), or those who maintain financial and technical rolations with the West African Development Bank (B.O.A.D.) are authorised to submit bids.

Details of this tender are available on every working Gay at the following

1. DIRECTION GENERALE DES POSTES & TELECOMMUNICATIONS Avenue de Calais, Lome, Togo. against payment of a sum of 25,000 F.CrA

2. SOFRECOM

8 rue de 8erri, 75098 Pans, France agumst payment of a sum of 500 Francii francs.

Bids are to be written in the French language and sent by registered against receipt to Monsieur le Président de la Commission Consult, live des Marchés Président de la Republique Lome, Togo

Daadline for receipt of bids is '11 October 1979 at 11 cm GMT. The date of opening of envelopes containing bids will be announced fater

YEMEN ARAB REPUBLIC MINISTRY OF MUNICIPALITIES

SANAA REFUSE DISPOSAL PROJECT

CONTRACT R 3 SUPPLY AND INSTALLATION OF WORKSHOP EQUIPMENT

Tenders are invited from reputable and established figures for the supply and installation of equipment required by the Ministry of Municipalities as part of the SANAA Refuse. Disposal Project. Disposal Project.

The contract comprises the supply to SANAA and installation there in a new vehicle maintenance depot of:

Workshop equipment, tools and fittings

Electric cabling for the workshop complex Diesel and petrol fuel tanks, pipework and dispensing units Service pipework for oils, grease, air and water
The tender documents may be obtained upon payment of a non-refundable deposit of 250 Yemeni rials payable to the Ministry of Municipalities not earlier than 15th August 1979 from the offices of the consulting engineers at the following address:—

Howard Humphreys and Sons Dorking Road Leatherhead Surrey, KT22 SJB

England.

Completed tender documents must be returned to:--. Ministry of Municipalities SANAA

emen Arab Republic To reach that address not later than 12.00 hours local time on 30th September 1979. His Excellency The Minister Ministry of Municipalities

Yemen Arab Republic

WANDSWORTH COMPORATION INSTALLATION OF HEATING AND PLUMBING AT SAYONA ESTATE. S.W 11 ITIDEMORE HOUSE! S.W 11 [TIDEMORE HOUSE]
Confractors wishing to be considered for selection to tender for the installation of heating and planting to 88 dwellings 2t Savous Exter.
Barterson, S.W.11, should submit harmes for the Director of Administration. The Town Hall. Wandsworth High Street, London, SW13 2PU, by 1g a.m. on 31st August, 1978.
The work wooled the installation of an individual gas-brad boller serving radiators in each dwelling, it is anticlosted that specifications and drawings will be hissed to selected tenderers in October/Hovember 1979. Applicants must give nemes and addresses of two technical and two financial roferees. The engineering design by this scheme with be provided by the Council's Director of Development.

CONTRACTS AND **TENDERS**

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EUROBONDS

It will be published in an eight-page format on the following dates in the remainder of 1972: September 10 October 15 November 12 December 19 There is a firmited amount of advortising space available each month: if you compare is interested in taking advantage of this offer please contect: The Financial Advertisement Dent. on 91-248 2000 Ext. 424 pr 389

Pending dividends

Guinness Mahon 14 % (Call deposits beer 17,000 111-15 # Hambros Bank 14 % | Damand deposits 111-%.

South Sept. 71 Programme Sept. 71 Programme Sept. 7 Finel 4.086 Crucible Sept. 13 Int. 2.5 Murdin and Pencock Sept. 5 Int. 0.87 :Assce....Sept. 6 Int. 5.112 *Fairclough
Cona. Aug. 25 Int. 1.5
*GRE Sept. 5 Int. 4.658
*Gibbons Dudley...8spt. 13 Int. 6.76328
Guest Keen Sept. 15 Final 5.96
Guinness
Peat...Sept. 6 Final 6.0
Herrison 6 Melysn.
Eastree...Sept. 11 Sec. Int. 2.75
Hepworth Hepworth Ceramic Sept. 6 im. 1.78
Heater Sept. 6 im. 1.78
Heater Sapt. 20 int. 2.358
Hofmung (S.) Aug. 22 Final 2.8142
HK & Shanghal Sept. Aug. 21 int. HK\$0.20

企业性

PSS RETES

March Cocos 1511-1521 🞨

The Tokai Bank Ltd

Negotiable Floating Rate U.S. Dollar Certificates of Deposit Series A Maturity date 20 August 1980



in accordance with the provisions of the Certificates of Deposit notice is hereby given that for the six month interest period from 29 August 1979 to 20 February 1980 the Certificates will carry an interest Rate of 11 1/16% per

> Agent Bank The Chase Manhattan Bank, N.A., London



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I.G. Index Limited 01-351-3468. 29 Lamon: Road, London SW19 OHS. 1. Tax-free trading on commodity futures. 2. The commodity futures market for the small investor.

LOCAL AUTHORITY BOND TABLE

| Annual Interest | |
|---|-------------|
| Anthority gross pay M | |
| (telephone number to interest able | sum bond |
| parentheses) | |
| | £ Year |
| Barnsley (0226 203232) 12 1-year | 250 3-5 |
| Barnsley (0226 203232) 121 - 1-year | 250 6-10 |
| Grtr. Manchester (061 247 3760) 12 - 1-year | 1,000 2-3 |
| Knowsley (051 548 6555) 124 4-year - | 1,000 5-7 |
| Redbridge (01-478 3020) 12 | 200 4-5 |
| Redbridge (01-478 8020) 124 year | 200 6-7 |

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Deposits to and further information from The Chief Cashler, Finance for industry Limited 91 Waterloo Road London SEI SXP (01-928 7832, Ext. 367). Cheques payable to "Bank of England, a/c FFI," FFI is the holding company for ICFC and ECL.

المكنامن المعل

FENDING SAID

and pays more

he large Hong Kong property, Lane Crawford, should continue hipping and retail group, into perform well. Last year it reased net profit before extra- was the main generator of inrecipary items by 42 per cent to IK\$122.3m (US\$23.7m) in the ear ending March 31. The final lividend has been increased by 5 cents to 15 cents making total for the year, inclusive if a 2.5 cents bonus dividend

No prognosis for the current end of the consumer boom will hurt Lane Crawford, and high consumer demand continuing at east for the time being at a high level, the group's 53 per shipping profits.

a a position to undertake.

Mr. Tengku Razaleigh, the inance Minister, who

Finance Minister, who announced the launching of the

back, said it would fill a gap

in the country's financial struc-

BY JAMES FORTH IN SYDNEY

between the ANZ banking group

and the Bank of Adelaide has

PROPOSED

dividen New bank for Malaysia

and financial institutions are not term investment.

ture at a time when the process the central bank.

ANZ scheme turned down

BY WONG SULONG IN KUALA LUMPUR

WHEELOCK MARDEN and Co., cent owned quoted retail arm, creased group earnings. Its net profit was up 93 per cent to HK\$41m.

Property rental income is also expected to maintain an upward path, according to analysts. However the market is treating also paid the previous year, of Wheelock cautiously. At the 12.5 cents against 17 cents for present price of HK\$3.60 the 1977-78. Extraordinary gains of the 1978-198 were also recorded, and selling on a little under lown from the previous year's nine times last year's earnings, in expectation that the eventual

board of four directors, two

from the Treasury and two from

The Supreme Court of South

Australia has upset the plans

merger the merger could be affected.

Wheelock earns | Exxon delays decision on Reliance Electric offer

Court Judge requiring Exxon to sion request for a preliminary maintain the company as a injunction against the take-over, separate entity.

District Court Judge John Pratt separate entity.

But Exxon, the largest U.S. oil company, stressed that it was not terminating its tender offer and said that it would be willing to accept an alternative arrangement to meet the Court's conditions. The Court has ordered another hearing on these alternatives for August 27.

Shareholders, who have already tendered around 95 per cent of Reliance stock to Exxon independent viable enterprise."

The Tudge said that the in response to the company's \$72 The Judge said that the widely employed.

EXXON CORPORATION is a share offer, will be able to requirement for Exxon to main-delaying a decision on whether withdraw their shares from tain Reliance as a separate to proceed with the purchase of August 20. however. to proceed with the purchase of August 20. however.

Reliance Electric shares following a ruling by a U.S. District into a Federal Trade Commission and Competitive if Exxon said that Exxon can buy the

> But Judge Pratt also ordered Exxon not to take any action which would impair its ability to comply with any order which the Commission may issue re-quiring it to divest its stock ownership of Reliance or "its control and interest in the busi-

acquired these operations, and also granted non-exclusive licences to companies to make an alternatiting current synthe-

Exxon announced its plans to try and acquire Reliance in May, saying that it needed to undertake the acquisition in order to exploit its new technology, the alternating current synthesizer. The development, which economises on power in electric motors, would save the U.S. the energy equivalent of 1m barrels

Jump in export demand at GHH

THE MALAYSIAN Government of growth and modernisation GUTEHOFFNUNGSHUETTE 1977-78 results graphically illuhas formed a bank to finance was attaining a high level of ong term, high technology pro-ects, which Malaysian banks tial amounts of permanent long big West German mechanical engineering group, increased general over the last year.
profits in the 1978-70 business Overall orders for 19 The Industrial Bank would . Called the Industrial Develop- make loans at concessionary

ment Bank of Malaysia it is rates to ventures at least seven sholly Government-owned, and years old. Initially it would has an authorised capital of concentrate on export-orientated 100m ringgit (\$46m). concentrate on export-orientated projects, and those in the construction and shipbuilding industries. The bank is managed by a

in orders and sales against the orders was finally recorded.

The order intake markedly AKTIENVEREIN (GHH), the strates the strength of the West exceeded sales, which rose German economic upswing in overall by 7 per cent to DM13.3bn, based on an increase

dividend.

The company gives no precise from the home market, where the order intake was up by 7.7 up to DM15.3br.—a rise or the profit figures in its latest letter the order intake was up by 7.7 up to DM15.3br.—a rise or the to shareholders—and notes that per cent to DM7.7bn. But, at per cent on the figure for the the turn of the calendar year, same time last year. No less demand picked up than 68.1 per cent of those market. iffered from one sector of foreign demand picked up roup activities to another. sharply too, and a rise of 8.9 However, the clear increase per cent to DM6.9bn in these

of 9 per cent abroad to DM6bn profits in the 1978-79 business Overall orders for 1978-79 of 9 per cent abroad to DM6bn year to June 30, and proposes to were up by 8.3 per cent to pay an unchanged 12 per cent DM14.6bn against the previous DM7.3bn.

orders, many of them large ones taking several years to

Microdata offer commences

ST. LOUIS - McDonnell Douglas Corporation said its MICD Holding has begun its offer to acquire Microdata Corporation at \$32 a share.
McDonnell will purchase all

ron into a hitch. The Reserve by rejecting the scheme of Bank recommended a merger arrangement under which the for the Bank of Adelaide, the smallest of the major trading Adelaide. Sir Arthur Rymill, shares if at least 90 per cent of Microdata common is ten-dered. If more than 50 per banks, earlier this year, the chairman of the Adelaide, because of financial difficulties said that an appeal to the full cent but less than 90 per cent is tendered, at least 45 per being experienced by its finance supreme court would be lodged company offshoot, Finance Corimmediately. Under the scheme cent of those shares will be purchased, although McDonnell does not intend to purchase poration of Australia. A finan- the ANZ would only need to cial package, involving an call a meeting and obtain more ti injection of funds into the approval from 75 per cent of shares. Adelaide was organised until the shares "present and voting." Reuter more than 50 per cent of such

Record result at Ivaco

record sales and earnings for from C\$122.4m. the second quarter and first half and said it has completed its avaco, said that the strong de-offer to purchase Atlantic Steel mand predicted earlier this year Company of Atlanta, Georgia.

The Maricville, Quebec, intograted steel producer said second quarter earnings jumped 93 per cent to C\$10.8m or C\$1.12 a share, from CS5.6m, or 57 certs a share, a year earlier, on a 56 per cent. soles gain to C\$105.8m from C\$67.8m. First half earnings more than

doubled to C\$20.3m. or C\$2.09 a share, from C\$9.7m. or C\$ cents a share, in the 1978 period. Sales

Gold Bullion (fine curce)

Severeigns (249-50) | 646-47)
Gold Coins, Internationally
Krugerrand .82681;-8101;-830-65;-30834 | (£138-139)
New .8791;-811 | 8765;-7854 | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-785) | (£768-78

Aug. 17 | Aug. 16

MONTREAL - Ivaco, reported were C\$196.5m, up 61 per cent Mr. Paul Ivanier, president of

> Sales in the third quarter have continued in an upward trend and are expected to be substantially shead of a year earlier, Mr Ivanier said.

He also said Ivaco has completed its previously reported offer to purchase Atlantic Steel's common stock. Ivanier said Ivaco purchi sed about 97 per cent of the Shares for a total of about U.S \$70m. The acquisition brings Ivaco's annual steelmaking capacity to more than im tons and its rolling capacity .2m tors. AP-DJ

Surprise Argentinian loan

By Rosemary Burr

AGENTINA's oil firm Yaci-(YPF) has asked a group of six banks to raise a ten-year \$250m loan. The spread is a per cent throughout with a five years' grace period.

The terms on which the man date was awarded have come date was awarded have come as a surprise to most bankers in the market. Recently the Argentinians have been pressing banks to extend the maturities of the country's credits to 15 years. However, market resistance to 15-year Argentinian paper and the growing difficulty for banks of placing even 12-year credits is placing even 12-year credits is believed to be behind this latest move back to shorter

maturities.

The deal is being led by Lloyds Bank International (coordinating and running the books), Citibank (agent), Credit Lyonnais, Dai-Ichi Kangyo, Mitsubishi Bank and Swiss Bank Corporation. The funds will be used to restructure the firm's existing short-term debt.

• Eurodollar certificates of deposits issued by British-based banks rose \$1.97bn in the month to July 18 to a record \$32.25bn, according to Bank of England statistics.

Simultaneously, Eurocurrency deposits, including Eurodollars, of banks in Britain rose by \$12.2hn in the same period to \$258.67bn. after interbank 8238.67bn. after interbank deposits with other banks had been subtracted. So far this rear Eurocurrency deposits have risen by 13.7 per cent or

This increase has probably resulted from a rise in deposits by oil-exporting countries following the increase in oil prices thus year, analysts suggest. Sor far this year Eurodollar CD issues have risen by \$4.4bn or 15.8 per cent.

Canadian oil merger

Francana Oil and Gas and Canadian Merrill announced that they have agreed to a plan whereby the business of Cana-dian Merrill would be transferred to Francana and Canadian Marrill shareholders would receive 1.9 Francana shares for each Canadian Merrill share, reports AP-DJ from Calgary.

terms for

| issue | E 6 | ten di | 19 | 79 | Stock | Suje Spi- | or a | or mess | atio | | |
|------------------|------------|--------|--------------|----------|---------------------------------|----------------|--------|---------------------|----------------|--|--|
| Price Pi | F.F. | | High | Low | | 25.2 | a | ₹,F.8 | ō≻ ~ ≪ | | |
| ** | F.P. | | 75 881 | 60 83 | Arrow Chemicals Barlow Hidgs | 72 . 86 | 1 ! 1 | T2.6j 1.1 | | | |
| 801 ₂ | F.P. | | 10512 190 | 9512 | Fairline Boats | . 102 . 190 | | 5.2 2.5 3.72 2.3 | | | |
| ed. | F.P. | 10/8 | | 26 | Mettoy Did | . 35 | j | _ | 3.9 24,0 | | |
| 160 | F.P. | | 198 | | Standard Tel.&Gable: | | -1 1 | 8.0 2.1 | 5.9 11.7 | | |

EOUITIES

FIXED INTEREST STOCKS

| ١. | | | | | _ |
|----|--|---|---|----------------------------|---------|
| | Isans Price | Am unt Pald up Latest Renunc Date | 1979 High Low | Stock Stock | >r - |
| | 991 100 59512 59 69 69 97 100p 698 | F.P. — F.P. 20/7 £10 29/11 F.P. — F.P. — F.P. — 7/9 | 105p 101p 1014 92 1214 854 7312 78 9012 8912 99 97 9914 9734 103p 100p | Aurora 814 Conv. Cum. Pref | |

"RIGHTS" OFFERS

| Issue Price | Am'unt Pake up | Renu | Latest 1979 Date Stock | | 25.0 | + or | | |
|----------------|-------------------|------|------------------------|-------------|--------|---------------------------------------|-----------|----------|
| p‡ | ₹8 | | a | High | Low | | 2 2 | <u> </u> |
| 14 | NII | 23/6 | | | 4pm | Abwood Machine Tools | 4pm | |
| 25 | Nii | 24/8 | 14/8 | | | Bank & Commercial | | |
| 110 A\$2 | NII NII | _ | _ | 49nm | 20pm | Bank Leum; Bank of New South Wales | 49nm | |
| 30 | F.P. | 3/8 | 24/8 | | 39 | Control Sacurities | 39 | |
| 25 | F.P. | 16/8 | 17/8 | | 38 | Goodkind (W.) | 45 | |
| 50 57 | F.P. | 3/8 | 7/9 | | 77 | Goldberg (A) | 81 | |
| 50 | F.P. | 6/8 | 51/6 | | 100 | Hanson Trust | 180 52 | +1 |
| 115 | F.P. | 30/7 | 25/8 21/9 | | 124 | HargreavesHargreaves | | |
| 88 | F.P. | 27/7 | 24/8 | | D1 | Highland Dist | 94 | -1 |
| 155 | E.B. | 13/7 | | 208 | 18212 | Holt Lloyd Intl | 206 | i1 |
| 10 | F.P. | 5/7 | 7/9 | | | Intl. Timber | | |
| 130 | NII | | | 11pm | | Lennona | | |
| 110 | NII Nii | 29/8 | 10.0 | 12pm 5pm | TOYDU. | Letraset | | |
| DC18 | | 15/8 | 17.8 | | | Ovenstone | | |
| 157 | F.P. | 20/7 | 24/8 | | 60 | UBM | 75 | +1 |
| 10 | nii | _ ! | _ | 2pm | | Yorkgreen invs | 1 is pm | |

Renunciation date usually fast day for dealing free of stamp duty. In Figures based on prospectus estimate. It is assumed dividend and yield, un forecast dividend; cover based on previous year's dernings. Fibilitional and yield based on prospectus or other official estimates for 1979. Q Gross. There is assumed, a Cover allows for conversion of shares not now ranking for dividend or ranking only for restricted dividends. It placing price to public, pt Pence unless otherwise indicated. I issued by tender. If Ohered to holders of ordinary shares as a "rights." ** Issued by very of capitalisation. If Reintroduced It issued in connection with reorganisation, marger of the ever. It introduced It issued to commercial holders. If Alloimont letters or tolly-paid. Provisional or porty-paid allotment letters. If With warrants, it Unlisted security. It issued as units comprising 2 Income shares and 10 Capital shares at 125p per unit.

Public Works Loan Board rates

Effective from August 18

| | Queta | ioans | repeid | Non-quota | ioans | A" repaid |
|-------------------|---------|-------------|-------------|-----------|-------|-----------|
| Years | by EIP† | A‡ | maturity§ | by EIPT | A‡ | maturity |
| Up to 5 | 124 | 12} | 12} | 13} | 13} | 13 |
| Over 5, up to 19 | 12 | 12 <u>†</u> | 121 | 13 | 12; | 13 |
| Over 10, up to 15 | 121 | 121 | 12} | 13 | 13 | 13 |
| Over 15, up to 15 | 12; | 121 | 121 | 13 | 13 | 13 |
| Over 25 | 12} | 12} | 12 <u>‡</u> | 13 | 13 | 13 |

The two companies said in March that they were studying a merger. Completition of the merger is expected by year-end.

*Non-quota loans B are 1 per cent higher in each case than non-quota loans A. † Equal instalments of principal. ‡ Repayment by half-yearly annuity (fixed equal half-yearly payments to include principal and interest). § With half-yearly payments of interest only.

CURRENCIES, MONEY and GOLD

Inflationary fears increase

Monetary Fund in its latest standards, but as recently as statistical summary. It is a sign May Switzerland's rise in conof the times that infiation has sumer prices was only 2.9 per increased significantly in western cent. industrialised nations over the last few months. The U.S., France and Britain all have inflation rates of over 10 per-cent, with the UK retell price index showing an annual rise of 15.6 per cent in July. Even

CURRENCY RATES

| | | . '- | |
|---------------------------|-------------------|-------------------------------|-------------------------------|
| August 17 | Bank rate % | Special Drawing Rights | Europes Ourrend Unit |
| Starting U.S. 6 | 14 | 0.586139 | 0.62255 |
| Cenadian 5 Austria Son | 1131 | 1.51955 | 1,61240 |
| Belgian F Danish K | 9 | 58.0941 6.85526 | 40.4722 |
| D Mark | 5. | 2.37720 | 2.52615 |
| Guilder Franch Fr | | 2.61276 5.53252 | 2.17665 5.67905 |
| Yen Nrwgn, K | 215 | 1063,55 | 1129,94 299,551 6,94035 |
| Spenish Pes. | 8 | 6,53450 85,7849 5,49407 | 91,1883 5.83428 |
| Swiss Fr | í | 2.15047 | 2.28602 |

Much of the blame for this upward trend can be placed on the rise in oil prices, which have tended to increase the pressure on interest rates: When raising the discount rate

to 101 per cent from 10 per cent last Thursday the U.S. Federal Reserve said the action was taken against the background of

build up around the world suffering from rates above 4 per seems to be totally confused according to the International cent, which seems low by our Last week the metal moved sharply between just over \$290 and nearly \$205, as fears about the world's economies continued to encourage buying, while at the same time it was suggested that gold may have reached its peak for the time being. In its latest monthly report the South African Chamber of Mines fore-cast a possible fall to \$250 Ister this year. This brought no com-

fort to a market that was already bectic and very nervous.

continuing strong inflationary forces. Earlier in the week attention focused on the Fed open market committee meeting, where it was decided to tighten monetary policy in increasing the target rate on Federal funds the uncommitted reserves lent between U.S. banks.

European interest rates also tended to firm last week, but although the foreign exchange market was generally active, currency levels were quite stable.

THE DOLLAR SPOT AND FORWARD

2.060-2.260 2.2176-2.2185 0.45-0.35c pm
2.0515-2.0545 2.0515-2.0555 1.15-0.95 c pm
1.1685-1.7701 1.1898-1.7701 0.02-0.05c dis
2.015-2.0135 2.0115-2.0135 0.59-0.48c pm
2.325-29.36 27.5-0.30 0.59-0.48c pm
2.325-29.36 27.5-0.30 0.59-0.75c pm
1.3290-1.3330 1.330-1.3330 0.85-0.75c pm
1.3290-1.3330 1.330-1.3330 0.85-0.75c pm
4.250-4.2650 4.2525-4.2550 0.50-1.00 dis
2.0290-5.0330 5.0390-5.0390 1.26-0.75c pm
4.250-4.2650 4.2525-4.2550 0.13-0.08c pm
4.250-4.2500 4.2265-4.2550 0.13-0.08c pm
1.3.365-13.379 13.365-12.37 8.5-6.09c pm
1.3.365-13.379 13.365-12.37 8.5-6.09c pm
d Ireland are quoted in U.S. currency. Forward

OTHER MARKETS

| August 17 | £ | \$ | | Note Rates |
|---|--|--|---|--|
| Argentina Peso Australia Dollar Brazil Cruzelro Pinland Markka Grsek Drachma Hong Kong Dollar Iran Rial Kuwaii Dinar (KD) Lutembourg Fre Majaysia Dollar New Zealand Dir. | 11,3950-17,4260 157,08-168,06 0,506-0,615 65,00-65,10 4,7700-4,8885 2,1850-2,1920 | 0.8856-0.8870 86.52-27.00 8.8320-3.8410 86.60-57.00 51.470-5.1500 70.74 0.2761-0.2762 29.31-29.33 21.575-2.1585 0.9855-0.9880 | Vapan Netherlands Norway Portugal Soain | 39-30 67-68 11.65-11.80 9.40-9.56 4.10-4.20 1,780-1,840 430-490 11.10-11 25 105-110 145-146 |
| Saudi Arab. Riyel. Singapore Dollar. Sth. African Rand | 4.7655-4.7830 | 2.1563-2.1578 | Switzerland United States Yugoslavia | 5.65-3.73 2.21-2.221 ₂ 43-46 |

Rate given for Argentina is tree rate.

| THE POUND SPOT AND FORWARD | | | | | | | | | |
|----------------------------|---|--|--|--|---|--|--|--|--|
| Aug. 17 | Day's spread | Elose | One manth | % Three p.s. months | 95 A | | | | |
| | - 1.0770-1.0820 4.04-4.081, 108.50-109.75 | 2_2175-2_2185 2_5935-2_5945 4_46-4_7 65_00-65_10 11_70-11_77 1_0793-1_0603 4_06-4_075 1_03_00-109_30 141_43-140_5 1_814-1_815 1_15-11_16 9_442-9_45-1 8_37-1_8_5-1 4812_4822, | 0.46-0.35c pm 0.52-0.42c pm 25-1½c pm 15-5c pm 1-2½cora die 25-35p dis 3-2¢f pm 50-110c die 195-245c dis 24-3-lice pm 5-3ore pm 21-1½c pm 23-5-105c pm 23-35-0.05c pm | 2.16 1.40-1.30 pm 2.17 1.32-1.22 pm 1.84 35-25 pm -1.28 3-5 dis -3.33 92-162 dis -3.80 120-220 dis -18.02 560-850dis -18.02 560-850dis 1.16 1-21; dis 4.30 112-23 dis 4.30 112-34 pm 1.60 5-3 pm 7.97 9.50-9.20 pm | 1.98 4.82 1.84 -1.37 -3.59 7.25 -6.23 -16.38 -0.35 -0.45 2.01 1.71 | | | | |
| Austria | 29,55-29,80 3,66-3,69 ² 2 | 29.83-29.63 3.67! ₂ -3.68' ₂ | 23-13gro pm 41-31-c pm | 7.28 38-48 cm 12.23 11½-10½ pm | 7.15 12.23 | | | | |

UK and Ireland are quoted in U.S. currency. Forward premiums and discounts apply to the U.S. dollar and not to the individual currency. EXCHANGE CROSS RATES

| | nosa non | | | · | <u> </u> | | | | | · |
|-------------------|---------------|-------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| August 17 | PoundStarling | U.S. Dollar | Deutschem | 'к Јарап'зе Үел | FrenchFranc | Swiss Franc | Dutch Gulld'r | Italian Lire | Canada Dolla | Belgian Franc |
| ound Sterling | 0.451 | 8.218 1, | 4.068 1.054 | 482.0 217.3 | 9,450 4,261 | 5.690 1.659 | 4,465 2,013 | 1010. 618.1 | 2.594 1.170 | 65.05 29.33 |
| leutschemark | 0,246 | 0,545 | 2. | 118.5 | 2,323 | 0.905 | 1,098 | 446.1 | 0.656 | 15.99 |
| apanese Yen 1,000 | 2.075 | 4,603 | 8.439 | 1000. | 19,61 | 7.635 | 9,265 | 5766. | 6.382 | 135.0 |
| rench Franc 10 | 1.058 | ¥,347 | 4.304 | 510.1 | 10. | 3,894 | 4.725 | 1920. | 2.745 | 68.84 |
| Wiss Franc | 0,272 | 0,603 | 1.105 | 151.0 | 2.568 · | 1. | 1,213 | 493.1 | 0.705 | 17.68 |
| lutch Guijder | 0,324 | 0.497 | 0.911 | 108.0 | 2:116 | 0,824 | 1. | 406.4 | 0.581 | 14.87 |
| talien Lira 1,000 | 0,551 | | 2.242 | 265.6 | 5,208 | 2,028 | 2.461 | 1000. | 1.480 | 85.88 |
| anadian Dollar | 0,396 | 0,855 | 1.568 | 185.8 | 5,643 | 1,419 | 1.721 | 509.5 | 1. | 100. |
| felgian Franc 100 | 1,637 | 5,410 | 6.253 | 741.0 | 14,53 | 5,657 | 5,864 | 2789. | 3.988 | |

LCNDON MONEY RATES

| Aug. 17 1979 | Sterling Certificate of deposit | Interbank | Local Authority deposits | Local Auth. negotiable bonds | | Company Deposits | market deposits | Treasury | Eligible Bank Bills & | Fine Trade BIMa 4 |
|-----------------|---------------------------------------|------------|--------------------------------|------------------------------------|-------------|---------------------|--------------------|-------------|-----------------------------|-------------------------|
| vernight | | 1354-144 | | | | 1334 | 15-155g | _ | _ | _ |
| days notice | l | | 14-141 ₈ | _ } | _ | - 1 | _ | - | - i | _ |
| /daysor i | { | ; | _ ` | ! - ! | | | - Ti- | _ : | 1 | |
| days notice: | - | 1854-144 | 14 ig-14 le | ! ! | - 1412 | 144 | 1312 | | | |
| ne month | | 14 16 14 4 | 14-144 | 15-1434 | 144 | 1458 | 13fg | 133,-1514 | 14.5 | 1468 |
| 'wo months | 1414-14 | 14 14 14 | | 1419-1414 | 1412 | l – i | 1354 | 184 | 1416 | 1418 |
| hree months. | 14-1-13-2 | 14-14 is | . 14 d-141g | 1416-1578 | 1439 | 1446 | 15% | 138-134 | 15% | 14 86 |
| ix months | | 13%-13% | -1550-1554 | 15-1334 | 137g | - | .~ | ~ | 1.858 | 14 |
| line months | 123 ₄₋₁₂₅₀ | 127-127e | | 15.123. | 134 | 1 - 1 | | _ | - | _ |
| Ine year | 124-12-2 | 12 126 | 1254-127a | 1212-1214 | 13 | | · - · | _ | | |
| wo years | _ ~_ /• | | 1254-15 | ! - | . –_ | l ! | | - ! | l I | _ |

Local authority and finance houses seven days' notice, others seven days fixed. ** Long-term local authority mortgage ates nominally three years 123-13 per cent; four years 123-13 per cent; five years 123-13 per cent. • 8 ank bill rates in able are buying rates for prime paper. Buying rates for four-month bank bills 13°s per cent; four-month trade bills 14 ser cent.

Her cent.

Approximate selling rate for one-month Treasury bills 13% per cent; two month 13% per cent; three-month 13% per cent. Approximate rates for one-month bank bills 13% per cent; two-month 13% per cent; and three-month 13% per cent; one-month trade bills 14% per cent; two-month 14% per cent; and three-month 14% per cent. Finance House Base Rates (Subhished by the Finance House Association) 14 per cent from August 1, 1979. Desiring Rank Deposit Rates for small sums at seven days notice 112-12 per cent. Clearing Bank Rates for lending 4 per cent. Tresoury Bills: Average tender rates of discount 15 2975 per cent.

| MUNET NATES | | | | |
|----------------|--|--|--|--|
| NEW YORK | | | | |
| Prime Rate | | | | |
| GERMANY | | | | |
| Discount Rate | | | | |
| FRANCE | | | | |
| Discount Flate | | | | |
| JAPAN | | | | |
| Discount Rate | | | | |

MONEY RATES

Important announcement to all shareholders of



Stenhouse Holdings Limited

Set out below is the text of a letter which has been posted to all shareholders.

"Dear Shareholder,

A joint announcement was made at close of business on Friday, 17th August by Stenhouse Holdings Limited ("Stenhouse") and The Continental Corporation ("Continental"), a New York based financial services company, that Continental intends to purchase up to 20 per cent of the ordinary shares of Stenhouse in the market.

THE PURCHASE WILL TAKE PLACE IN THE OPEN MARKET, COMMENCING WHEN THE STOCK EXCHANGE OPENS FOR BUSINESS ON MONDAY, 20TH AUGUST 1979.

Stenhouse is based in the United Kingdom and owns 53.8 per cent of the equity of Reed Stenhouse Companies Ltd, a Canadian listed company with world wide insurance broking interests. Since Reed Stenhouse has subsidiaries which are admitted at Lloyds, the approval of the Committee of Lloyds has been sought and obtained. The Panel on Take-Overs and Mergers has also been consulted.

In making the announcement in London, Mr Herbert Houghton, a director of Stenhouse commented, "We welcome this proposed investment by Continental and we believe that while insurance underwriting and insurance broking will always be divided there are specific areas of common interest where we can each benefit from the association without affecting our independent relationship with our clients. In particular we can help to develop our respective interest in provision of insurance-related services where there is considerable scope for growth." "Continental," Mr Houghton said, "has confirmed that it will not increase its interest in Stenhouse beyond 20 per cent and that it will not seek representation on the board of Stenhouse or Reed Stenhouse Companies Ltd.'

Mr V Lee Barnes, Continental's executive vice president for international insurance and reinsurance, said, "We think a Continental investment in Stenhouse would add to the diversity of our sources of revenue and contribute to the stability of corporate earnings. International insurance broking is a continuing growth sector of the international insurance market. A minority investment in Stenhouse," Mr Barnes observed, "would allow Continental to share in that growth without changing in any way our relationship around the world with insurance brokers and independent agents who represent The Continental Insurance Companies, and other subsidiaries of Continental. Continental's strategy is to invest in insurance and insurance-related enterprises. Diversified insurance related services are showing growth and greater demand as changes continue to develop in the insurance world."

The Stenhouse family and their associated interests have indicated that it is not their present intention to sell any shares.

The Board of Stenhouse has declared an interim dividend for the year to 30th September, 1979 of 1.82p per share (1978—1.82p) which will be paid on 28th September to shareholders whose names appear on the register at close of business on 7th September.

THIS ANNOUNCEMENT IS OF IMPORTANCE TO SHAREHOLDERS AND REQUIRES IMMEDIATE ATTENTION

If you are in any doubt about what action to take you should consult your stockbroker, bank manager, solicitor, accountant or other professional adviser immediately.

18th August, 1979

John G. Stenhouse, Chairman."

WORLD STOCK MARKETS

Assistance business brought into the net

EY OUR INSURANCE CORRESPONDENT

ERITISH INSURERS in the past many more, all of widely differderade have had to accept an ing types, provide a whole range increasing degree of supervision, stemming from motor insurance failures 10 years ago, from more recent difficulties of some of the smaller newer life particular "assistance" scheme offices, and from Britain's membership of the Common Market within the proposed legal definition. bership of the Common Market, within the proposed legal defini-

deals with the co-ordination of traditional insurance. However, laws," formulated regulations it is not at present contemplated and administrative provisions that manufacturers should relating to the taking-up and of maintenance contracts should pursuit of the business of direct insurance other than life

Any assistance organisation

how directives are operating be to find an insurance carrier and whether amendments are for its scheme and bring mem-needed. In Fabruary this year bers and insurers together

business so that organisations might accrue. providing assistance services would be brought into the in-

is the kind of protection pro-vided principally by the AA and RAC in respect of breakdown From the motorist's point of flew the AA "Relay" and the RAC "Recovery" schemes are scarcely distinguishable in character from other personal insurances. The member pays a premium for promised protection and gets a contract.

But the essential difference between AA/RAC schemes and comprehensive motor and household policies is that the former are run by two motoring organizations—without the backlatter have to he provided by authorised insurers.

in connection with motoring or more controversial than the tourism. On the Continent basic proposal itself.

This process is by no means complete.

In July, 1973 an EEC directive, known as the non-life establishment directive, which deals with the co-ordination of traditional insurance. However, the continuous of the scale of competition with deals with the co-ordination of traditional insurance.

Any assistance organisation From time to time the EEC caught by the proposed amendment to the directive would supervisory authorities discuss have two options. One would they decided that a working under some kind of group conpaper should be produced on the introduction of a new class of insurance to be subject to the 1973 directive.

This new class would include what is called "assistance" might accrue.

The alternative would be for the organisation to comply with surance supervisory net even all the appropriate detailed though they might not at pre-rules for authorisation as an sent be considered to be insurance company, get authorisent be considered to be insurance company, get authori-insurers in the countries where they operate. Insurance company, get authori-sation and continue in business as before. That would be satis-What then is "assistance": factory for an organisation Perhaps the best example here is the kind of protection provided principally by the AA and assistance as one of several activities.

In the latter case it would have to hive off its assistance scheme from the rest in order to get the necessary insurance authorisation. Thereafter the two distinct parts of the organisation's activities would have to stand on their individual feet for profit-and-loss purposes.

Assistance busines; js 99.9 per

cent consumer-orientated per-sonal lines business. It is in the personal lines area that all EEC supervisory authorities, ing of the insurance market including the Department of from the ground up-while the Trade, exercise greatest control. The proposal to bring assistance business into the insurance con-In Britain there are a number trol net is logical. However, of non-insurance organisations providing "assistance" for members and others, principally

Control Data..... Ccoper, Indus.... Corning Gless.... CPC Int mation'i. Crane Co.... Crocker Nati....

APPOINTMENTS

Senior post at NatWest

Mr. Ben Boult, Southampton and Channel Islands area director of NATIONAL WEST-MINSTER BANK, has been appointed Nottingham area director. He succeeds Mr. John Milton, who is retiring at the end of August. Mr. Roy Jones will become Southampton and Channel Islands area director.

ROYAL LONDON MUTUAL INSURANCE SOCIETY in succession to Mr. B. G. Skinner, who centinues in a non-executive capacity. Mr. J. B. Knights has been appointed general manager and head of the society's field division.

Mr. E. Brian Bennett has been appointed a director of BANK

Channel Islands area director.

**

Mr. T. Sanders has been appointed a director of TULLETT AND RILEY INTERNATIONAL. Mr. J. Jones and Mr. S. Witpen have been appointed directors of Tullett and Riley (foreign exchange)

Co. These appointments take effect from September 1.

Mr. Bryan Litherland has been appointed group accountant for the ERYROB HIRE GROUP.

Mr. Peter Williams has been appointed general marketing manager responsible for micrographic and business communication products groups in the business products division of 3M UNITED KINGDOM.

Mr. W. K. Gibson, senior group industrial relations officer of Westminster Press, has been appointed assistant general man-ager, YORK AND COUNTY PRESS, York (a division of Westminster Press).

Westminster Press).

Mr. T. J. Donovan and Mr. A. J.
Ramsdale will join the partnership of COLBURN, FRENCH
AND KNEEN on September 1.
Mr. P. N. Hulance, Mr. D. M.
Kingston and Mr. J. G. Reilly will
be appointed junior partners, Mr.
K. L. Hare, marine claims manager, and Mr. M. V. Elton, marine
servicing manager, on the same
data.

formed marketing group.

Mr. F. W. Anderson has been appointed chief insurance manager of BRITISH AEROSPACE and becomes a director of British

Metals.

chief general manager of THE raffles."

Johnson Jehnson Johnson Control

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appointed a director of BANK JULIUS BAER INTER-NATIONAL

Mr. Derek G. Hickman is to join the TOLEMANS HOLDING COMPANY as managing director of the truck division from August 20. He was formerly with Mann Egerton.

Mr. Archie Thomas bas been appointed director, financial systems division, of CHUBB CASH in succession to Mr. Bill Richardson, who has retired. He joins the company from Perkin-Elmer Data Systems of Slough.

Mr. James S. Lyon has been appointed a director and chief executive of MIL, of Wolver-

Mr. Paddy Lynch, an executive director of the SOLICITORS' LAW STATIONERY SOCIETY.

Mr. Philippe Brugere-Trelat has been appointed a director of WORMS (UK), a subsidiary of Banque Worms, Paris.

Mr. John G. Chaplain has retired from BROWN SHIPLEY INSURANCE SERVICES for health reasons and is succeeded as chairman of the underwriting division by Mr. A. C. Yeo. Mr. servicing manager, on the same data.

Mr. Phillip M. Wilson, senior vice president of BANKERS TRUST COMPANY, has been appointed to head its newly formed marketing group.

Miners reject a small change

Aerospace (Insurance) and British Aerospace (Insurance Brokers).

The property of the property of the property of the wages to the property of the wages staff from having to count pennies. Mr. Peter Heath-field. Derbyshire secretary of the National Union of Mineworkers, explained. fetals.

Explained: "The lads need change in their pockets for things like collections and

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NEW YORK-DOW JONES

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| Transport | 258,70 | 265.96 | 271.77 | 268,58 | 268.11 | 264,46 | 271.77 (15/8) | (8 %) 205.78 (27/2) | 279.68 (7/2/68) | TP.25 (\$77/\$2) |
| Utilities | 109,18 | 109.60 | 103.53 | 103,86 | 108.49 | 186,15 | 189, 13 (17/8) | (27/2) 38.51 (15/5) | 165.82 (28/4/68) | 18.58 (28/4/42) |
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| 481 ₁ | 2512 | Amenada H | 665 | 40î <u>z</u> | 163 ₁ 27 141 ₄ |
| 66.1 | 10\s 48\s 52\s | Amer, Airli Amer, Brav Amer, Brov | 1de | 1019 655; 4518 | 68.4 |
| 4111 | . 35 | Amer, Gas | | 3614 | 60 30a |
| 275 37 23 | 203; 1 197; | Amer, Cya Amer, Dist Amer, Elec | Tel | 22 i | 52 T |
| 36% 50% | ' 2014 TA 1/ | Amer, Elec Amer, Exp Amer, Hom | APTOO. | 6653 281: | 484 244 |
| 5414 914 | 45 | Amer Mot | DOM: | 825g 71, | 95g |
| . 44 % 584 | 36 397g 2814 | Amer, Hat, Amer, Stan | dard | 4572 8621 2012 | 45: 58% |
| 643. | . 57 4 | Amer Store Amer. Tel. Ametek | A TALL | 561 ⁵ | 21 is 515 |
| 1814 | : 15 ;; 294- ; | \MF \NAD | | 18 181 ₂ | 36.1 25.1 |
| 181 | 1419 | Impe# Inchor Hor Inhauser E | king. | 18 177a | 3914 3 |
| 25 14 | 197a !! | krmed | | 4lg 3iz | 894 271: |
| W 1 1 1 E | 1312 | l.S.A laamara O | | 16 | 28.4 563, |
| | 1 75 to 12 | sh land Oil | 1 3 | 121 ₂ | 231p 1341 194 |
| 36 | ; 2612 i/ | tti. Richtie luto Data i | Pro 3 | 1614 151 ₈ | 55 194 |
| 125 28 55% | 1814 | VCo Vco | | 1112 2732 517 | 4817 32:2 |
| 4715 28 | 251, 6 | laker intl. | areanni (| 7 9 | 87ī ₄ |
| 2914 8014 | 1014 2 | Bangor Pur | ta 1 | 1914 191 ₂ | SP:4 4514 |
| 96 M | 24). 2 | SankA meri Sankers Tr. Sarber Oii . | | 9 | 2414 |
| 919 473, 2675 | , ASS a F | lasic Resol laxter Trav leatrice Fo | renol. 4 | 11g 173g 251g | 105s 50 39 |
| 2731 | 20 1 | Seckman i Sect 'nDiok | nsi 2 | 2754 | 14 tg |
| 19% | 143, 1 | Cell & How | ell : 7 | 856 954 | 181 ₈ 471 ₄ |
| 414 243a | 1913 | Bendix Benguet Co Bethiehem | Steel 2 | 51) 1534 | 343g 127e 551 |
| 241 ₂ 621 ₉ | 164 | Nack & De | cker 2 | 7 | 421g |
| 3815 271 | 26 24 % | oisa Casc Borden | ade | 77a | 354 29 |
| 341 ₂ 141 ₄ 22 | 263; E 105 ₈ E 1514 E | org Warn Braniff Inti Brascan A | er | 5414 1518 1934 | 60 is |
| 44 287 | 31 1 | Bristoi Mye Brit. Pet AD | F9 | 61. | 8718 8019 |
| 19 156a | 14:1 | krockway (krupswick | Glass.; 1 | 5.4 | 267a 51 ₃ 5014 |
| 24-3 | 161 ₂ E | iucyrus Eri Iurlinaton | Nthn. 6 | 15s 21s | 58: ₈ |
| 78 35 4 2968 | 641 ₂ 6 32 0 198 ₄ 0 | lurroughs. 8 lledqma Sanadlan P | oup. 3 | 51g 25a 91g | 23 2314 |
| 16 291 ₉ | 10 (| Adilel Media | OIDH. | 51: | 2154 181 ₂ |
| 135 | 1054 (| iarnation Iarriers & C Iarter Haw | | 214 91 ₂ 71 ₃ | 2934 321 ₂ |
| 611 ₃ | aal. c | aterpijar BS | 1 | 774 4.3 74 | 1014 28/2 1612 |
| 484 164 | FAAR S | elanese C entral & S | .W 2 | 5:4 8 | 17% 29% |
| 18): 215: 271: | | ertain Tes lessna Airc thamaion | | 03a | 76% 393 |
| 4.314 | 3711 C | champion th'so Manh thomical B thesebr'gh theseis 54s | attun 4 k. Ny. 4 | 2'4 2'5 | 243 ₄ 334 |
| 25.5 ₃ 34 | 2114 C | hesebrigh hessig 5ys | Pond 2 tem. 3 | 51g 334 | 417g 511g |
| 641 ₄ 101 ₃ 241 ₄ | 712 0 | hrvsler | | 714 814 513 | 851 ₂ 263 ₄ |
| 261a | 85'a C | iticorp ities Servi | ce 7 | 112 | 363; 80 1858 |
| 20 36!4 45 | 14 C | ity Investi leveland C ocaCole | 3TH 5 | 9:, 614 | 761₂ 325≈ |
| 45 19 10-s | 36% C 15% C 8% C | ocacole olgate Pali ollina Aikn | | 0 73 9 | 164 207a |
| 51 12 25!- | 25 \ IC | olumbia G | 28 3 | 15g 51- | 2814 49 557 ₈ |
| 234 55/a | 16!4 C | om.insCo.c | MATS, 1 Eng. 5 | 9īg 1īg | 40 1334 |
| 15 26 | 95a C | ombustion m'th Edisc omm. Sate | Eg, 1 | | 5634 |
| 6514 4856 174 | 285: C | garguqmo | hic 4 | 21- 15a 7 | 801g 243g 441g |
| 39 181: | 75° C | onn Life in Onfaç | s 6 | 74. 83a | 524 226 |
| 24% | 211. (0) | on, raison | . O | 3-4 41- | 2154 |
| 44.5 | 76 a Ca 19 √ Ca | onaoi fiat. Snaumer Pi | Gas 4' Swar' 2. | 213 2 | 30.ag |
| 30≥, 40 | 2343 C | ontinental | OII. 3 | P | 24 14 257 |
| 1712 | 14% (C | ontinental | reis, 1 | 74 | 367 ₈ |

| 573 18 86 851 521 57 | 75:2 55% 35:2 55:2 4112 58:8 17:3 | |
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| 5185545216884 1648928688 | 15551487 9714384 44 8 4448438 8 8155144 974431844 87742525 8 1544458 8 154448 8 154448 8 1544488 8 1544488 8 1544488 8 1544488 | |
| 25615172556125674 2613172556125674 2613172556125674 | 55 1 1 5 5 1 1 1 5 5 5 5 5 5 5 5 5 5 5 | |
| 2914 2912 46 89 91: 473; 2514 2734 | SP:4 4514 2414 4414 1058 50 39 | |
| 567; 1893; 1893; 2847; 261; 261; 1934; 193 | 1818 4714 3436 1276 5531 4218 29 6078 5719 5719 5719 5719 5719 5719 5719 5719 | |
| 7626 7626 7626 7626 7626 7626 7626 7626 | 2314 2134 2134 2934 2934 2842 1642 1642 2936 7636 3934 4176 2434 4176 2434 | |
| 814 15.13 | 2654 365, | |

| 212 2952 1774 4774 1775 4014 1874 1775 1775 1775 1775 1775 1775 1775 17 | |
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| 5512 1534 1552 15 | The second of th |

| 70000000000000000000000000000000000000 | 40834 1758 1657 1657 1658 1658 1658 1658 1658 1658 1658 1658 | 293-1 293-1 293-1 143-1 181-1 191-1 501-1 237-1 237-1 237-1 199-1 17-1 |
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| TREATH AND THE TREATH | 413784 44 48 44 48 44 48 48 48 48 48 48 48 4 | #1000 1 1 1 1 1 1 1 1 1 |
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| | 1818 4714 4714 1272 425 425 425 425 425 425 425 425 425 42 | 101e 8914 8415 912 9415 941 |
| 4 | 29% 76% 39% 24% 354 41% 511 ₂ | 25 591 ₃ 506 ₄ 11:8 25: ₉ 55: ₈ 25! ₂ |
| N 43844435144 8 8788444351 N | 8512 2634 801 | 425; F 151; 8 511; 8 64 F 105; F 261; F 121; F 151; F 151; F 341; L 341; L 347; F 134; B 134; B 134; B 134; B 134; B 134; B 134; B |
| 3 | 801g 243g | 495 ₁ [1 686 ₆ [] 20 [] |

247; 283; 181; 185; 361; 171; 266;

| | 3518 2939 952 1434 1554 | Desire | 155 15 |
|---|--|---|--|
| | 818 5018 35 41 2478 2576 | Diamond Shmrk. Di Glorgio Gorpn. Digital Equip Dianey (Wait) Dover Corp'n Dow Chemical Dravo | 111 ₄ 631 ₄ |
| | 5519 5914 1909 718 5514 | Drawer Dupont Eagle-Picher Eastern Airlines Eastman Kodek Eaton | 507a 444a 251c 91a 567a |
| | 274 15:3 24:39 5316 1746 58 | E G. & G E Paso Nat. Gas. Eltra. EmersonElectric EmeryArrFreight | 8734 2118 5139 5719 9819 8878 |
| | 284 24 2214 484 484 | Engeihard Etmark Ethyl Excon | 214 5534 2718 2734 5534 52 |
| 1 | 117a 154 251c 144 295a 284 214 | Firstone Tire First Chicago Fst. Nat. Boston Flexi Yan Flintkote Florida Power | 1154 1918 82 16 4675 3058 |
| | 9934 40 1814 30 54 | Ford Motor Foremost Mak Foxboro | 281q 4156 24 421 ₂ 1014 |
| 1 | 5238 255a 86s | Freeport Mineral Fruehauf Fuqua Inds G.A.F. | 4312 5534 1578 |
| | 8914 2413 912 2413 | Gannett, Gelco Gen. Amer, Inv. G.A.T.X. Gen. Dynamics. Gen. Electric | 4674 3444 1248 354 421g |
| : | 46 9819 2415 5436 812 | Gen. Foods General Mills General Motors | 5434 5434 28 59 912 5512 |
| | 25 | Gen. Pub. Util Gen. Signal Gen. Tel. Elect Gen. Tire Georgia Pacific | 29 % 2134 5 29 |

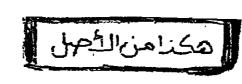
| 174 | EmeryAirFreight | 924 587a | 371 ₂ |
|--------------------------------------|---|--|--------------------------------------|
| 284 | Emhart | 2534 2634 | 4014 19 |
| 24 | Etmark | 271 | 804 684 |
| 48.4 | Ethyl Excen- Fed. Dapt. Stores | 373, | 271a |
| 284a 117a | Fed. Dept. Stores Firestone Tire | 52 115, | 481 ₄ |
| 161. | First Chicago | 1910 | 351 |
| 144 | First Chicago Fst. Nat. Boston Flexi Van Flintkote | 16 | 3334 3810 |
| 295g 234 | Fintkote | 467g 30% | 71÷3 213 |
| 2134 | Florida Power | 3774 | 251 |
| 993 ₄ | F.M.CFord Motor | 981q 415a | 651s |
| 184 | Engament Mak. | 94 | 1954 |
| 30 54 | Franklin Mint. | 1016 | 67 641 ₈ |
| 523e 255a | Freeport Mineral Fruehauf | 4312 | 485. 661a |
| 868 | Fruehauf Fuqua Inds | 1512 | 251g 352g |
| 101e 8914 | G.A.F | 1114 467 ₆ | 3524 |
| 24 3 | Gannett | 34 on | 264 3314 |
| 91 ₂ | G.A.T.X | 125g 355g | 2063 5475 |
| 26 46 | Gen. Dynamics Gen. Electric | 421g 543g | 8612 |
| 9819 24 is | Gen. Foods General Mills | 543 ₄ 28 | 253g |
| 545g 812 | General Motors | 59 91 ₂ | 364 153 |
| 25 27's | Gen. Pub. Util Gen. Signal Gen. Tel. Elect Gen. Tire | 3613 | 13 is 273 |
| 2012 | Gen, Tire | 2938 213 ₄ | 2812 5112 |
| 41g 25% | Georgia Pacific. Georgia Pacific. Georgia Pacific. Georgia Pacific. | 5 29 | 253 ₈ |
| 27:4 351g | Geosource | 371g | 364 294 171 ₉ |
| 2558 | teletine and | | 2532 |
| 16 17 % | GWette GK, Technologies Goodrich B.F IGoodyear Tire Gould Grace W.R. | 205 | 2414 171 ₂ |
| 151a 237a | Goodyear Tire | 153a 281a | 2314 |
| 265a 61a | Grace W.R | 3217 9% | 222° |
| 2154 1168 | Grt. North Iron | 25 | 25 25 2314 |
| 14 | Greyhound | 151 ₂ 17 | 22!s |
| 25 591: | Halliburton | 59% 764 | 814 28 |
| 306a 11% | Hornischfager ! | 5734 2331 | 251 ₃ 21 |
| 26% 25% | Harris Corpn Hainz H. J Haubiein | 351g 387g | 34 348 |
| X215 | | 295 | 421 |
| 423; 151; | Hewlett Packard Holiday Inns | 551 ₂ 221 ₁ 353 ₈ | 125, 393, |
| 511. 64 | Homestaka | 353a 80 | 283s |
| 1053 2612 | Hosp-Corp. Amer | 16% 35% | 461 ₂ 351 ₄ |
| 2617 2331 1212 | MOUSTON NAT. GAR | 31 14 14 1 ₂ | 295. |
| | Hunt IPh.A) Chm | 2074 | 1758 88 |
| 241, 393 ₈ 47 | Hutton (E.F.) | 2758 4831 5414 | 40 ₆₃ 394 |
| 347 ₂ 113 ₄ | inland Steel | 87 | 284) 257 ₄ |
| 495, | IUBIICO | 1854 | 26 |
| 68èg 20 | IBM | 5614 7114 | 55% 145a |
| ₹47= | itni. Flavour | 22 485a | 325g 883 ₄ |
| 383, 181, | Intl. Min.&Chem. | 5178 22 | 2854 401 ₂ |
| 195. 381 | Inco I | 193g 464 | 1812 261a |
| 10'3 10'3 | Inti. Paper Ind. Restifier Inti. Tel. & Tel Iowa Beef | 156g | 18 |
| 175. 100. | lowa Beef U international | 294k 2173 | 2854 |
| 26 is | Jim Walter | 1314 341 ₂ | 281 <u>a</u> 691 ₂ . |
| | | - | |

| | 16% | 154 | WANTED SELVICES | 1773 | 107 |
|---|--------------------------------------|------------------------|---|--------------------------------------|--------------------------------------|
| 1 | 2514 | 21 | Kay Kennecott Kerr McGae | 14 le 254 | 30% 46 |
| | 5914 5712 | 464 | Kerr McGee Kidde Walter | 535a 565, | 825 <u>.</u> 864 |
| • | 485 ₄ | 484 184 | Kimberley Clark. | 4434 | 504 9 |
| | 493 ₆ | 484 | Koppers | 25 493, | 812 |
| | 25 4 237 ₂ | 1914 | Kroger Co | 24 | 163 ₄ 827 ₈ |
| • | 61 | . 381g | Levi Straues | 62: | 517g |
| ì | 283 ₄ 403 ₂ | 24½ 5242 | Libbey Ow. Ford. | | 194 ₈ 21 |
| 1 | 5974 | 4719 | Liggett Group | 291 ⁸ 291 ⁴ | 1034 |
| | 36 4 29 | 1878 | Litton industries Lockh'ed Aircrit | 35 2775 | 363g 54 la |
| | 26 | 211 | Lone Star Indian | 26: | 164 284 |
| ' | 184 57 is | 1514 | Long island Ltg Louisiana Land | 172g 361g | 3414 |
| | 494 | 48 141 _a | Lucky Stores | 464 | 4814 48 |
| l | 204 | 1014 | MacMillan | 177 | 884 |
| | 418g 371 ₂ | 53 5114 | Macy R.H | 49 351a | 551a 586a |
| | 367a | 8114 2634 3434 | Manco | 881a | 14/g 246g |
| | 19 | 14 | Marathan Oil Marine Midland, | 5812 183 ₁ | 5914 |
| | = | 16% 59% | Marshall Field Marsh McLenn n | 185 ₀ 664 ₀ | 511g |
| | 271a | 2254 | May Dant Shores | _ | 3510 |
| ' | 484 | 3712 | MCA | 46:4 | 2714 1715 |
| | 321e | 157a | McDermott | 2019 2854 | 447 |
| | 334 384 | 2354 2758 | McGraw Hill | 371g | 6712 |
| | 7150 | 6312 | Merck Merrill Lynch | 7110 | 32 89% |
| • | | 155g 325g | Mana Detroisurs | 2114 521a | 50 |
| | | 18 | MGM | 2034 | 5134 5766 |
| | 4014 | 864 | Minn Ming & Mtg Mobil Corpn | 383g | 293g 5214 |
| | | 11 is | Modern Merch, | 1414 5616 | 68.5 |
| | | 431g | Morgan (J.P.) Motorola | 5474 491 ₃ | 61:4 |
| | 661a | 405s | Murphy Oil | 653a | 81 45% |
| | 251g 352g | 2238 2614 | Naico Chemicale | 244 344 | 50 |
| | 324 | 1654 | Mational Can | 22 | 66!4 82!2 |
| | 264 3314 | 183, | Nat Distillers Nat Semic'd ctor | 261a 2834 | 22 421 ₂ |
| | 206a 3475 | 144 | Nat. Service Ind National Steel | 19 341g | 34 5s |
| | 8612 | 2876 4036 | Natomae i | 561a | 16.5 59.6 |
| | 80 23% | 595a 2014 | NCR | 781g 821a | 1503g 634 |
| | 364 | 34 | New England Tell | 3517 | 37 |
| | 155 ₂ 127 ₈ | 131= 954 | Niagara Monawk Niagara Share | 1428 1334 | 18% |
| | 2731 | 20 217a | Norfolk & West'n | 274 | 295g 25č |
| | 5116 | 336g | North Net Gas Nthn. States Pwr Nthwest Airliner, Nthw'st Bancorp | 6072 | 561 ₇ 965 ₈ |
| | 253s 364s | 2134 254 | Nthwest Airliner, | 2514 3435 | 46 % |
| | 2914 171g | 2318 | Morton Simon | 29 16% | 2014 503 |
| | 253 ₃ | 1534 19 | Occident'i Petroi Ogilvy Mather | 2312 | 551, 6239 |
| • | 1719 | 1478 | יייייניטוניט בינוניטויייייייייייייייייייייייייייייייי | 16:3 | 23% 20's |
| | 231 ₄ | 174 | Olin | 2214 | X114 |
| | 353g | 2079 | Oversess Ship | 34 293 ₄ | 351g 804 |
| | 25 | 2150 | Pacific Gos | 22 24 | 3014 401e |
| | 25 2314 2214 | | Pacific Lighting. Pac. Pwr. & Ltg. | 227g 311g | 193, |
| | 22!s | 5 | Pan am World Airl | 75- | 81 ₉ 423 ₈ |
| | 28 251 ₈ | 241 ₈ | Parker Hannifin. Peabody Ind Penn. Pwr. & Ltg. | 271 ₉ 24 ₅₈ | 45 |
| | 34 | 22 | (.3,C.) | 2012 5231 | 194 313: |
| | 348g 4212 | | Pennwalt | 8417 4273 | 251 ₂ |
| | | 9 | Peoples Drug | 121, | 531 ₂ 664 |
| | 363. 283s | 31.7 | Peoples Gas Pepsico | 39 281 ₉ | 431) |
| | 3834 | 2614 | Porkin Elmer | 30% | 4012 |
| | 461 ₂ 351 ₄ | 271g 2914 | Pfizer | 46!4 35!3 | 7334 811 |
| | 293, 1758 | 2013 | Pricips bodge | 275; 165a | 11-4 |
| | 50 406a | 151g 29 2914 | Philip Morris Philips Petro'm. Prilispury | 5734 5918 | 52 · |
| | 39% | 3214 | Pillebury | 3 93≥ | 231 ₂ 251 ₈ |
| | 284) 257 ₈ | 4400 | triini - DA st cont | 283) 223; | 464g 394 |
| | 26 | 1912 | Plessey Ltd ADR, | 2412 | 137e |
| | 55% 145a | 971. | Polaroid Potomac Elec | 29% 12% | 274 i |
| | 325g 885g | 20-1 | Tru iliuusu lus | 3238 791 | 40 kg 255g |
| | 2834 | 75 20 | Pub. Serv. Elec | 217g | 3678 |
| | 40½ 18½ | 295 ₄ | Pulman | 3814 1734 | 33 34a |
| | 26 t _a | 22 fg | Quaker Cats Rapid American. | 2856 | 40 - ! |
| | 18 573, | | | 677a | 24 824 |
| | 2812 | 25 | RCA | 256g 2734 | 331a 225g |
| | 6912 | | Resorts Inti | 4612 | 2712 |

| | 70 | 293 | 221 ₂ | Standard |
|------------------------------------|--------------------------|----------------|--------------------------------------|---------------------------------------|
| Modern Money | 883g 141a | 5214 | 3414 | Std.Oll Ca |
| Modern Merch, | | 68.8 | 4334 | Std. Oil Ir |
| Monsanto | 56 Te | 61 | 2872 | Std. Oil O |
| | 5474 191 ₃ | 24 | 1912 | Stauffer |
| Murobu Off | 554g | 21 . | 123, | Stauffer a |
| Murphy Oil | 24 L | 45% | 15aa | USCOPERATI |
| Nales Chamissis | 44 | 50 | 2419 | Studebak |
| | | 66!4 . | 351, | Sun Co |
| | 13 | 8212 | 19 | Sundatra |
| Nat. Distillers | 261# | 22 | 15 to | Super Va |
| Nat Semic'd ctor | 2834 | 4212 | 1857 | Santas Aff |
| Nat. Service Ind. | 9 | 34% | 1858 | Syntex Tandy Co |
| inational Steel . I (| 141g | 16.8 | 10 | Technico |
| Natomas | i61 ₃ | 5938 | 321 ₂ | Tektronix |
| NCR 7 | | IEO. | 574 | Teledyne |
| New England E S | 212 | 634 | 4 | Telex |
| New England Tel | 5513 | | | |
| Niagara Mohawk I | 4 8g | 37 | 28 | ТегогоРе |
| Niagara Share 1 | 34 | 18% | 614 | TesoroPe |
| N. L. Industries . 2 | 174 | 295g | 221g | Texaco |
| Norfolk & West'n S | 728 | 2543 | 1812 | Texaaguif |
| North Net Gas 6 | 07a | 5612 | 32 | Texas Eas |
| Nthn. States Pwr 2 | 514 | 96áa | 613g | Texas insi |
| Nthwest Airliner. 3 | 438 | 45 m i | 2438 | Teyes Oll |
| Nthw'st Bancorp 2 | 19 | 2014 ! | 18 | Texas Util Times I no Times Mir |
| Norton Simon 1 | 649 | 603a | 35% | Times I no |
| Occident'i Petroi: 2 | 312 | | 221g | Times Mir |
| Ogilvy Mather 2 | 13, | 6230 | 41 | 'Timken |
| Ohlo Edison | 6:3 | 25% | 18 | Trane, |
| Olin 2 | 1214 | | 16 | · I fan. Ame |
| Natomas NCR | 14 | 5114 | 204 | Transco Tran. Unio |
| | 1936 | 351g | 28 | Tran. Unk |
| Owens Illinois | 2 | 804 | 20 | 1 ransway |
| Pacific Lighting 2 | 4 | 3014 401e | 137g | Т₩Согр |
| Pacific Gas | 278 | | 93% | Travelors. |
| Pac Pur & Ita | 1113 | 193, | 1653 | Tri-Contin |
| Pan Am World Ale | 75 | 818 18st | 412 | Triton Oil |
| Parker Hannifin. 2 Peabody Intl | 719 | 423g | 29 in | TRW |
| Peabody Intl | 4 5 | 45] | 30 | '20th Cont |
| Penn. Pwr. & Ltg. 2 | 01- | 194 | 1373 | Tyler |
| Penney (J.C.) 2 | 2.1 | | 26 | 11 & 1 |
| Pennwait | 41- | 2512 | 17 | UGI, |
| Parrozoil | 273 | 261° | 1612 | |
| Peoples Drug 1 | 211 | 531a | 40% | Unilever |
| | 9 | 664 | 57/6 | Unileyer N |
| Pepsico 2 | Big | 451) 131; | | . Uniqui CALE |
| | O5e | 4012 | 81q 284 | UnionCom |
| Petrolane 4 Prizer 3 | 6!s | 7334 | 511 | Union Oil |
| Pfizer 3 | | | | Union Pac |
| Pitzer | 73. | 811 | 5 | Uniroyai |
| Philadelphia 51a 1 | Fin. | 11-1 | | |
| Philip Morrie 3 | 73. | 52 . | 2643 | US Banco |
| Phillips Patro m. 3 | 910 | 2312 | 211 ₃ 181 ₂ | US Gypsun |
| Pillebury 3 | 932 | 851a | 2114 | US Gypsur US Shoe US Steel |
| Pitney-Bowes 2 | 834 | 4630 | 364 | 09 25661 |
| Pittston 2 | 23, | 394 | 307a | UtdTechno |
| | 412 | 137g | | UV Indust |
| | | 3013 | | Virginia E |
| Polaroid 2 | 97g | 274 | | Walgreen. |
| Potomac Elec I | ē 4 | 4024 | 32 | Wallace M Warner Co |
| rru inquatnes 5 | B-48 | | D1c. | warner-Co |
| | 91¢ 17g | 255s 367s | | Warner-La |
| rup, sery, Eleg Z | | 33 3 | | Waste Mai |
| Pulimen (a) | 814 | | 27 | Wells-Farg |
| Purex | <u>73</u> 4 | 343a | 2418 | Westernße Western N Western U |
| Quaker Cats 2 Rapid American. 1 | B5g | 40 | 2414 | Western N |
| Rapid American. 1 | 1-34 | 24 | 151 ₈ | Western U |

| 424 | Schlumberger 82 6 | |
|--------------------------------------|--|-----|
| 161 ₁ 121 ₈ | Soott Paper 191a | |
| 174 | Scovill Mfg 1912 | |
| 6: 53, | Sea Containers 195 | |
| 48 fe | Seagram 301 | |
| 105g 181g | Sears Roebuck 201 | |
| 26 Vg | Security Pacific. 3312 | |
| 14 a 18 4 | Shell Oil | |
| 87 وذ9 | Sheli Transport: 52 | |
| 16 in | Signode Corp 36 | : |
| 8 4 8 la | Singer | |
| lāig lāig | Smith Inter 504 | 1 |
| 34 | Solitron, | |
| 214 | | |
| 2 is | Southern Co 121 | |
| á | | |
| 88 | Southern Balling'in 57 | |
| 21g 23g | Swit Bancahara 254 | |
| 24s 23s | Sperry Hutch 157g Sperry Rand 51 | |
| 130 | Squibb | |
| 81 ₂ 41 ₄ | Standard Brand. 25 Std.Oli California 517 Std. Oli Indiana. 664 | |
| 133 ₄ | Std. Oil Indiana 664 | |
| 87g 91g | Stauffer Chem 2379 | 1 |
| 23 ₄ 503 | Sterling Drug 177g | |
| 41 _A | Studebaker War. 4976 | |
| 51; g | Sundstrend 521s | 1 |
| 58a 851 | Super Valu Store 22 | - 5 |
| 83 ₃ | Tandy Corpn 2554 | - 1 |
| U 212 | Technicolor 157g | 3 |
| 74 | Teledyne 14714 | |
| 8 | Std. Oil California 51 % 6514 Oil Indiana. 5214 Std. Oil Indiana. 5214 Std. Oil Oilo 2514 Oilo 2 | |
| 614 | TeroroPetr laumi 164 | 8 |
| 21g 61g 2 | Texaco | 1 |
| 2 13a | Texas Eastern 5412 | |
| 43g 8 | Texas Oll & Gas 4533 | 3 |
| 554 21g | Times i no 44 lg | - |
| 1 | Times Mirror 3551 | 1 |
| 8 | Trane, 235g | 5 |
| 6 04 | Transco | 1 |
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هكذامن الأحيل

INTERNATIONAL BONDS

A jaded view of the dollar

"NEVER have so many done so little for so few" was how Hill Samuel chose to sum up the situation in the Eurobond market last Friday: indeed, the second week in August may have witnessed a low in Eurobond new issue and trading activity

Investors are staying away from the market, convinced that and have been doing so again U.S. short-term interest rates for the past two weeks. Yield still have some way to go before differentials of up to 30 basis still have some way to go before reaching their peak. With most European countries having taken the lead in tightening their respective monetary policies, the Federal Reserve's decision to follow suit last week a move which was widely expected, had already been dis-

Banks feel that the U.S. authorities have taken a step in the right direction but they want to see U.S. interest rates move higher before they even consider buying dolar denominated bonds in any quantity again. Their attitude is unlikely to change dramatically even though the amount of cash at their disposal

A feature of the international ond markets which is becom- quantity.

is the divergence between yields in the U.S. domestic and Eurobond markets. Such divergences have occurred in the past, not least last October, a time when non-U.S. investors had lost con-

fidence in the dollar.
The two markets diverged again at the beginning of July points are now available to investors who choose to buy Eurobonds rather than U.S. domestic issues.

This divorce between the two three factors: the major one is the lack of confidence in the future stability of the dollar among investors living outside been so deeply eroded by events in Washington over the past 12 months that it will take more than the appointment of Mr. Paul Volcker to the Federal Reserve and the slight tightening of U.S. monetary policy initiated last week to convince them that it is safe to start buying dollar paper in any

tions about the dollar, the stronger the tally in the New tions about the dollar, the to push up the offered yields on stronger the tally in the New Eurobond issues is the volume York market that is needed to of unsold Eurobonds held by win them over. major houses in their inven-

| | June 14 | July 2 | July 16 | Aug. 6 | Aug. 16 |
|--|---------|--------|---------|--------|---------|
| GMAC 9} per cent Eurobond of July 1, 1986 | 9.50 | 9.55 | 9.62 | 9.78 | 9,83 |
| GMAC 8; per cent U.S. domestic bond of june 15, 1786 | 9.51 | 9.46 | 9.51 | 9.56 | 9.66 |
| PEPSI-CO 91 per cent Europend of March 1, 1984 | 9.48 | 9.72 | 9.44 | 9.80 | 9,73 |
| PEPSI-CO 81 per cent U.S. domestic bond of Jan. 15, 1985 | 9.37 | 9.26 | 7.26 | 9.53 | 9.43 |

Bid yields on cor

less sanguine view than U.S. residents about the likely impact the coming recession will have on U.S. inflation rates. Nor are they convinced that the U.S. balance of trade deficit can be seriously cut in the near

Non-U.S. investors also take a: tories. Issues, brought to the market as far back as February are still not entirely disposed of, hence the attempt to attract investors by offering them cheaper bonds

So long as these various factors are at work, dealers believe this hiatus between the

two markets will continue.
There appears to have been Yankee bonds into Eurobonds. particularly where French names are concerned. The re-cent 10 per cent Eurobond of 1984 for Michelin. in particular, is attracting investor interest as it offers a yield some 20 basis points above French Yankee bonds of similar quality

BY FRANCIS GHILES

New issue activity in the dollar sector of the Eurobond market was at a low ebb last week. No straight bond was launched for the second week running. One floating rate note, for Williams and Glyns, through Credit Commercial de France was launched, as well as what is believed to be the largest ever floating rate note certificate of deposit for Banous vationale de Paris Ltd.: 575m for five years with an interest rate fixed at | per cent above the six month Libor rate lead.

The West German Capital Markets Sub-Committee meets today. It is not expected to agree to a new issue calendar of more than DBI 400-500m for U.S. BONDS the coming four weeks.

BY NICHOLAS COLCHESTER

CURRENT INTERNATIONAL BOND ISSUES

| | Amount | Macurity | Av. life Price | Coupon | Price | : Lead manager | Offer yield % |
|---|-------------|----------------|-------------------|--------|--------------|--|---------------------|
| U.S. DOLLARS †Citicorp †Williams & Glyn's Ban | 100 k 75 | 1983 1991 | 3 i 12 | 510 | 100 100 | Credit Suisse First Bos | ton — 5.32 |
| ††Norges Kommunalban (g'teed Norway) | 100 | .1999 - | 13 . | .: 🖅 | | Smith Barney-Harris . Upham | • |
| D-MARKS | 50 | 1935 | _ | 61 | 100 | Deutsche Bank | 6.5 |
| SWISS FRANCS IShikoku Elec. Power | 100 | 1989 | n.a. | 4 | 100 . | UBS | 4.75 |
| Danish Mortgage Bank (g'teed Denmark) New Zealand | 80 · . | 1991 | ma. | 41 | 99 | Swiss Bank Corp. Swiss Bank Corp. | 4.86 4.43 |
| †Bank Handiowy | 30 | 1929 | 7.2. | - 50 | 100 | Banque Gutzwiller, Kurz, Bungener | 5.069 |
| **§Tokyo Soda Mnfg. **§Tokyo Sanyo Elec. | 49 80 | 1984 - 1984 | = | 41 | - 100 100 | Crédit Suisse Swiss Bank Corp. | 4.675 4.55 |
| CANADIAN DOLLAR †Credit Foncier | 30 | 1984 | .5 | 101 | 100 | Crédit Suisse First Bos S. G. Warburg | tota, 10_375 |
| UNITS OF ACCOUN Copenhazen Cnty. Aust | | 1991 | 5 | 83 | • | Kreditebank Luexm. | • |
| . XUWAITI DINARS . Caisse Cen. de | | : . | | | | | . : |
| Cooperation Econ. (g'teed France) | 10 | 1994 | 9.4 | 8 | • | KIIC | · |

INTERNATIONAL LOANS

Syndicated lending vindicated

IS: A syndicated loan still a paying proposition? The latest answer to the opening question ranalysis from Euromoney shows that in the first six months of 1979 the average spread on new the return on equity is directly spread averaging 0.677 per cent duce a pre-tax return on capital losus was 0.956 per cent and proportional to the gearing ratio over 8.6 years. Such terms of 24 per cent. Even on the the average maturity 8.3 years—adopted by banks. The return a deterioration from the average sigures for 1978 of 1.242 per cent over seven years.

Setting the costs of the funded. and capital elements of a loan, and the cost of risk, against the interest and fees received. minus costs, leaves the hieroglyphic formula shown in the inset. It is a simplistic calculation and serves only to put current loan terms into some sort of perspective.

It assumes that the cost of funds is is per cent below LIBOR, and that the front-end fee is 1 per cent annualised over eight years. There are two even employed greater approximations. I have per cent. adopted the cost-or-risk of 0.33 per cent per year suggested by Governor Wallich of the U.S. Fed. After consulting various bank about 27.5 per cent on Markers I have, in cavaller capital before tax. This implies fashion, knocked 0.15 per cent an after tax return of about 14 off the spread to pay for per cent which would be con-

is: yes. Two developments have helped. The formula shows that is also, curiously, affected by the LIBOR rate. The reason for this is that the higher the LIBOR rate the less burdensome becomes the small portion of each loan which is funded out

of capital. Bankers confirm that the gearing ratio has become steadily larger. I have assumed 25 to 1 for U.S. banks and 33 to 1 for European banks and even these are probably conservative. This immediately lowers the acceptable spread. Equally LIBOR has been rising relative to the acceptable return on capital employed. It is now about 11.5

The end result is that Euromoney's average syndicated loan would currently yield a U.S. sidered prefectly adequate back.

were to persuade a group of U.S. levels and that the deterioration Euromoney's analysis shows banks that a loan to Electricite and variation in lending terms up National Westminster as one de France was riskless then a is now much more a question of this year's fine pricers with a spread of } per cent would pro-

limit: a spread of per cent looks well beyond the pale.

probably just make a loan pay

with a spread below ! per cent.

A highly geared bank making

Return on equity formula

 $R = k[i + s + 0.1 - (i - 1/k)(i - \frac{1}{2k}) - L]$

k is required ratio of earnings assets to ou i is LIBOR.

s is the spread (less management costs).

L is annual provision against loan loss. 0.1 is the 1 per cent front-end fee annualised over eight years.

would be tough going for a U.S. basis of such trust this is bank, but gearing could make approaching the American lower them more acceptable to an English one. Assuming a 3 per cent capital component, Natwest's spread still produces an optimistic assumptions can estimated pre-tax return on capital of 23.3 per cent.

In considering loans made at but the buck clearly stops at spreads of around } per cent around this level. The interestthe Wallich risk factor probing message in Euromoney's
ably has to be abandoned. If
the French finance ministry bunching up at current low

of maturity, with averages for different banks stretching all the way from 4 to 12 years. Morgan

The reason for the trend towards longer maturities is probably that the cost to the lender of this concession is far less tangible than a spread reduction. In the equation of annual return, an extended maturity shows up as a slight dilution of the annualised front-end fee and an imponderable increase in the notional cost of risk. It also marginally increases the cost of the bank's funds because the bank is more likely to issue Floating Rate Notes to limit the maturity mismatch of its loan

But by and large, because of its "roll-over" nature, a floating rate syndicated loan is an extensible financing instrument to which new sections can be bolted on at will. The prospective profit remains largely unchanged, but the act of faith becomes more and more im-

fired another round at the inflationary dragon last week, tightening credit and raising its likely that the dollar would have discount rate to a new record of 103 per cent, even though come under renewed pressure.
It is arguable that in the face of consumer price inflation run-

the Carter Administration is officially forecasting higher unemployment and a recession. The moves followed the figure is due on Friday-the regular monthly meeting of the money supply soaring, and bank Fed's monetary policy arm, the Federal Open Market Committee have opted to rhigher rates even steps will be needed. Since the (FOMC) on Tuesday, the first with Mr. Miller still in the chair, and of June, many short term since Mr. Paul Volcker suc-ceeded Mr. G. William Miller as Fed chairman on August 6,

On Wednesday, the Central Bank signalled an increase in the average weekly target interest rate on Fed funds from 102 per cent to around 11 per cent, and this was followed almost immediately by increases in commercial bank prime rates to 12 per cent. The discount It focused instead on inflation rate increase followed on Thurs-

Both the U.S. bond markets. albeit in very light trading, and the foreign exchange markets, greeted the initiatives with enthusiasm. In spite of rising short term interest rates, bondprices remained firm and the

dollar strengthened.

THE Federal Reserve Board appointed the financial markets, sor appeared to be to take the which had so warmly welcomed latitative in fighting inflation his appointment, it is more than rather than waiting until the ning at over 13 per cent in the from further actions of neces-first half of the year — July's sary, even if the economy is

> seemed to be evident in the rises almost a full percentage drafting of the statement which point. One month commercial accompanied the discount rate increase. Whereas in July when 10.50 per cent against 9.63 per the discount rate was increased, cent then, according to Salomon the Fed's explanation focused Brothers, and three month bank on the need to defend the dollar, this time the Ped's statement made no comment on the week compared with 9.30 per continuing threat to the dollar. cent at the end of June. And

and monetary growth as the reasons for the action. Mr. Voicker no doubt sees these as the fundamental economic problems which need to be tackled,

The markets had been antici- forced the markets in their the midst of the 1974 credit pating just these steps. Indeed, belief that Mr. Volcker will be squeeze, the Fed funds rate

markets forced an official response. So, the chances of reces-sion have been enhanced since the Fed is unlikely to shrink weakening.

There are many on Wall credit exploding, the Fed would Strest who fear that further But the new chairman's hand-interest rates have, it is true, paper is currently standing at certificates of deposit, at 10.70 the prime rate is back to the record 12 per cent hit in September, 1974.

But credit remains readily available at the commercial banks, although some banks are and the performance of the dol- concerned about the impact on lar largely as a symptom of the -their customers finances of the failure so far to tackle them long period of high interest rates adequately. The Fed's moves have rein- sake of comparison, however, in had the new Fed chairman dis- more willing than his predeces; peaked at 18.75 per cent.

FT INTERNATIONAL BOND SERVICE

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* No information availableprevious day's price.

†Only one market maker supplied a price.

STRAIGHT BONDS: The yield is the yield to redemption of the mid-price; the amount issued is in millions of currency units except for Yen, bonds where it is in billions. Change on week ≈ Change over price a week earlier.

FLOATING RATE NOTES: Denominated in dollars unless otherwise indicated. Coupon shown is minimum. C.dte=Date next coupon becomes effective. Spread=Margin above six-month offered rate (t three-month) for U.S. dollars. C.cpn=The current coupon; C.yld=The current yield.

CONVERTIBLE BONDS: Denominated in dollars unless otherwise indicated. Chg. day = Change on day. Chv. date = First date for conversion into shares. Chv. price = Nominal amount of bond per share expressed in currency of share at conversion rate fixed at issue. Prem=Percontage premium of the current
effective price of acquiring
shares via the bond over the most recent price of the shares.

The list shows the 200 lates

international bonds for which an adequate secondary market exists. The prices over the past week were supplied by: Arab Company for Trading Securities SAK: Kredietbank NV; Credit Company and Brance: Credit Commercial de France; Credit Lyonnais; E. F. Hutton Services SARL; Commerciank AG; Deutsche Bank AG; Westdeutsche Landesbank Girozentrale; Banque Internationale Luxembo Kredletbank Luxembo Luxembourg; Algemene Bank Nederland NV Algemene Bank Nederland Nov.
Plerson, Holdring and Pierson,
Credit Suisse/Swiss Credit Bank;
Union Bank of Switzerland,
Akroyd and Smithers; Backers Trust International; Bondtrade; Banque Française de Credit International; Citicorp International Bank; Dalwa Europe NV; Deltec Bank; Dawa Europe Ny; Deltec Trading Company; Dillon, Read Overseas Corporation; EBC; Pirst Chicago; Goldman Sachs International Corporation; Ham-bros Bank; IBJ International; Kidder Peabody International; Merrill Lynch; Morgan Stanley International; Nesbitt Thomson: Salomen Brothers International Samuel Montagu and Co.; Scandi navian Bank; Strauss Turnbull and Co., Sumitamo Finance

International; S. G. Warburg and Co.: Wood Gundy. Closing prices on August 17

The outlook for the

RIO DE JANEIRO-OCTOBER 17 & 18 1979

H.E. Minister Karlos Rischbieter, Minister of Finance, Brazil will give the keynote address at this second conference to be arranged by the Financial Times with Varig Brasilian Airlines in Rio de Janeiro on 17 and 18 October 1979.

The conference will provide an opportunity to hear expositions of government policy. An international panel of speakers will assess the outlook for Brazil, its relationship with the United States and with the European Community and the implications of the energy problem.

For full details of the conference programme please complete and return the coupon below.

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Pessimism deepens over economic prospects

BY DAYID CHURCHILL, CONSUMER AFFAIRS CORRESPONDENT

A FURTHER FALL in confidence in the economy was recorded in the latest Financial Times survey of consumer confidence, published today.

The decline follows a sharp fall in confidence after the Budget. Consumers' concern over rising prices is again the main reason for pessimism.

The survey showed that 47 per cent of consumers believed conditions would worsen, an increase of 3 per cent over last month. The same proportion as last month, 15 per cent, thought conditions would improve.

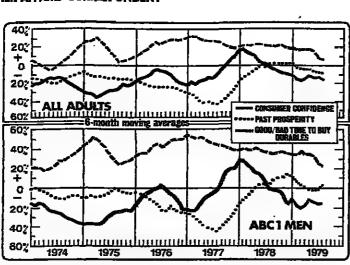
This gives an index of minus 32 per cent, compared with minus 29 per cent in each of the previous two months At the time of the general election in May, the index stood at plus 9 per cent. A year ago it stood

The steep fall in consumer confidence since the Budget is reflected in the decline in the six-monthly average, which reflects the trend rather than recording monthly fluctuations. This had recovered from minus 18 per cent in March-a result of the industrial unrest last winter-to minus 11 per cent in May after the boost given by the general election. But in August it has declined by two percentage points to minus 16 per cent.

The main reason for pessimism was rising prices, cited by four out of ten pessimists in the survey. Last month 48 per cent gave this reason. More consumers gave the Government's economic policies as a reason for pessimism-30 per cept, compared with 19 per cept last

Consumer concern over the energy crisis — especially the petrol situation — has eased sharply, being pinpointed by per cent of the survey,

reason for optimism. A quarter felt worse off. This gave an gave the reason that "things index of minus 14 per cent.



that the decline in confidence is year, although their index has almost entirely accounted for by dropped 4 points to plus 4 per C2DE men (manual workers). cent. Their confidence has dropped 13 per centage points to minus 45 per cent.

The index for ABC1 men (professional and executive) has increased 9 per cent from last month's all-time low of minus 28 per cent. Men in both social grades are now noticeably more pessimistic than women.

Those between 35 and 54 are the only age group to have increased their confidence. The overall picture by age shows very little variation—minus 32 per cent for the under 34s; minus 30 per cent for the 35-54s and minus 33 per cent for the 55s and over.

On a regional basis, Scotland has the lowest level of future confidence, while London and the South has the highest but the difference between the two areas is not as marked as in

Prosperity

The index of past prosperity against 15 per cent last month. also fell in August after a slight month—and means the index is

Of the 15 per cent of consumers surveyed who remain vey showed 27 per cent of conoptimistic, half gave the Governsumers feeling better off than

The Financial Times survey

Again, it is the ABC-1 men Analysis of the survey by subgroup which considers its Financial Times.

Although ABC1 women still feel their families to be worse of overall, their index has increased nine points to minus 4 per cent.

The survey showed that con-

sumers are getting more used to the higher prices of consumer durables following the value-added tax increases in the Budget. In August, 35 per cent of the survey—up from 26 per cent last month—felt that now was a good time to buy things for the house." proportion thinking it a bad time fell from 43 to 39 per cent. This gives an index of minus 4 per cent, compared with minus 1? per cent last month. Before the Budget, the index stood at plus

Concern over unemployment continues to rise, according to the survey. Some 47 per cent of the survey expects unemployment to rise, while 9 per cent think it will fall. This gives an index of plus 38 per cent—com-pared with 33 per cent last

25 per cent

ment's policies as the main a year ago, while 41 per cent of consumer confidence was carried out between August 2 and 8 by the British Market Re-search Bureau on behalf of the social sub-groups shows clearly families better off than last 1,039 adults was interviewed.

WILLIAM MOSS (CONSTRUC-TION), part of the William Moss terminal being provided by the Group, has received orders worth British Transport Docks Board Group, has received orders worth at the port of Newport, Gwent, more than £10m. The largest is more than £10m. The largest is a construction contract worth £2.25m placed by Deacon Development and Finance for warehouse units at Newton-le-Willows. Moss has also been given work valued at £1.5m for NAAFI. Kennington Lane, London, while two contracts worth £1.9m each have been received from Milton Keynes Development Corporation and Raglan Housing Association, has been awarded to GEORGE WINPEY. Work is due for completion by the end of February, 1980.

CONTRACTS

and Wilson.

and commercial vehicles.

BLACKETT CHARLTON

(VESSELS), a member of the BTR Group, has been awarded a contract worth £1.3m for pipe

£10m building

orders for Moss

The Link-Miles division of Singer (UK) has ordered seven Systems 32/77 computers, valued at over Sim (£448,000), from SEL COM-PUTERS. The computers will be and Ragian Housing Association, used on Singer AST (advanced Loughborough, for advanced factory units and flats, respectively.

WHESSOE (IRELAND) has been awarded a £400,000 contract BORDER ENGINEERING CONTRACTORS, a member of by Alumina Contractors to de-sign and build 18 storage units the London and Northern Group, has been awarded contracts worth over £3.25m. These include for the Aughinish alumina pro-ject on the Shannon estuary in the construction of an efficient treatment works and pumping station at Workington and the provision of a water supply system for Thames Board Mills and the construction of a ratio

Brush Electrical Machines has placed an order worth about £50,000 with FILTERMIST for 70 and the construction of a reinoil mist filtration units. The units are being fitted to turbine forced rock store for Albright driven turbo-generators, which Brush Electrical is supplying to John Brown Engineering Gas

CROSBY DOORS, a member of the Montague L. Meyer Group, has placed a £3m contract for the construction of its new Euronean distribution centre at Swindon. Groundworks have been let to Rush and Tompkins (Parsons) and the steel frame and cladding to Conder Midlands. HENRY SIMON has signed £500,000 contract with Moulins Badre to equip a new flour and Kenitra in Morocco. The mill will have a capacity of 120 tons of wheat a day and is scheduled for completion in the latter half CELORIDE has been awarded a

contract worth more than f2m by the Soviet foreign trade organisation, Metallurgimport, is part of a factory project to it part of a factory project to manufacture batteries for cars and commercial vehicles. The FERRANTI COMPUTER STSTEMS has supplied a dual Argus multi-access minicomputer ystem valued at £100,000 to the Ministry of Defence. The system has been installed at the MoD's SHEPHERD · ENGINEERING SHEPHERD ENGINEERING SERVICES has been awarded contracts worth more than £2m. The largest is a £1.5m order for all mechanical services and air conditioning in the Halifax Building Society's extended comouter building at its Halifax headquarters. Work is due to start in October. defence automatic data processing training centre at Blandford, Dorset, where it will provide advanced training for officers and senior NCO's from the armed forces and personnel from the Civil Service.

ELLIOTT GROUP PETERBOROUGH has won contracts worth £455,000. P.S.A. Contracts has placed an order of £175,000 for design, development and construction of a Me fabrication work on an at Altear training camp. SEGAS at Altear training camp. SEGAS has signed a contract for distriction offices and a canteen at Mitchum at a cost of £100,000 and the Metropolitan Police are The £500,000 main contract for spending £46,000 on the construction of temporary premises at Bexievheath police station.

Elliott has also received classroom orders from North Yorks.

C.C., Hereford and Worcester
C.C. and East Sussex C.C. worth

> The pipelines division of the PLASTIC CONSTRUCTIONS GROUP has received an order worth around £800,000 from Lilley Construction. Plastic Constructions has been subcontracted. to supply and on-site weld 3,000 metres of high density poly-ethylene pipe and fabricate and cupply 20 spirally wound HDPE manholes for installation at 100 metre centres.

JOHNSON CONSTRUCTION, a member of the J. B. Holdings Group, has been awarded a \$755,000 contract by B. and G. Hudraulies to helid a \$250,000 contract by B. and G. Evdraulics to build a new 43,000 og ft factory with offices at Dominion Way, Worthing. Work on site will commence on September 3.

BAKER PERKINS has been awarded a £600,000 contract by United Biscuits (Foods) for an automatic bulk handling system. The order includes nine silos, Seven of these are of 60 ton capacity, six for flours and one for wheatmest. The remainder are 35 ton spiece and will store

BOC GAS EQUIPMENT has won an order worth more than 1300,000 from British Rail for the supply of flashback arrestors and associated testing rigs for use with oxy-acetylene cutting and welding equipment. Ten sets of supplied and set up in British Rail workshops to ensure that the flashback arrestors can be tested quekly and accurately.

WELLHAN INCAN-DESCENT furnace ordered by the Ford Motor Company has the capacity to double the rate at which camshafts are being pro-cessed for automobile engines at the Dagenham, Essez, engine plant, The £200,000 contract is for a highly mechanised salt bath furnace installation for surface hardening.

Two GEC companies, TELECOMMUNICATIONS and TELEPHONE CABLES have won contracts totalling £2.6m the Post Office for the supply and installation of the first long-distance optical fibre communications systems in the UK. Total route length from GEC will be 179 kilometres, and the cables will contain 1,432 kilometres of fibre. Among them will be a connection between London and Reading carrying 1,920 speech

Dredger buckets and tumblers worth over £500,000 bave been ordered from O. H. STEEL FOUNDERS AND ENGINEERS, Sheffield. The order has been placed by Mining and Transport Engineering BV, Amsterdam, which is constructing three dredgers to be used for gold-mining in Heilungkiang, the most northerly province of China. Each dredger will be equipped with 75 buckets of 300 litres capacity, and will dig at a depth of 11 metres.

Valued at £500,000 the first colour studio equipment to be used in the island of Antigua will be supplied by PYE TVT. The contract includes vision mixing, telecine equipment, and an electronic news gathering

The company is supplying 50 11-inch illuminant "D" phospor tube monochrome monitors for the BBC's outside broadcast vehicles, at a cost of £26,750.

BUSINESSMAN'S DIARY

UK TRADE FAIRS AND EXHIBITIONS

International Craft and Hobby Fair (04252-72711) (until August 23) Wembley Conference Centre Aug. 21—23 Education and Communication Technology
Exhibition (01-722 4139)

Aug. 25—Sept. 1 International Motor Cycle Show (01-741 2156)
Sept. 2—6 Giftware and Fashion Accessories Trade Fair
(Tanbridge Wells 36685)
Sept. 3—7 International Music Publishing and Recording International Music Publishing International Music Publish Holland Park School Earle Court International Music Publishing and Recording Industry Show—INTERPOP (01486 0059)
Offshore Europe Exhibition and Conference (01549 5831)
Point-of-Sale Exhibition (01-340 3291)
International Carpet Fair (021-705 6707)
International Inplant Printing Show—REPRO.
WORKSHOP (01-647 1001)
Business and Light Arietion Show (01-281 2437) Connaught Rooms, London West Centre Hotel, London Harrogate Wembley Conference Centre Cranfield Airfield, Beds. Chelses Old Town Ball Bristol Exhibition Centre Business and Light Aviation Show (01-261 8437) Chelsea Antiques Fair (0727 56069) Electronics Show (08833 4371) Sept. 11—22 Sept. 11—13 Sept. 16—19 Electronics Show (08833 4371) MAB 79—International Menswear Fair (01-839 5041)
Filtech/Dustex 79—2nd World Filtration Exhibi-Sept. 17—20 Filteen Fluster 79—222 World Fluster 18—21 Fine (01-236 0911)

Sept. 18—21 Firefech 78 International Fire Protection and Control Exhibition (01-637 2400)

Sept. 24—26 Weighteen 79 (01-636 5741)

Sept. 24—28 International Welding and Metal Fabrication Exhb. (021-705 6707) Metropole Ex. Centre Brighton National Exhibition Centre Birmingham

OVERSEAS TRADE FAIRS AND EXHIBITIONS

| O I THOUSE | | |
|-------------------|--|---|
| Current | International Trade Fair (01-486 1951) (until | |
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| Current | | nir |
| Current | International Packaging and Food Processing | [17] 松野野 17] 對10gh |
| | Exhibition—PARPROCESS (01-486 1951) | S. 11 27 17 17 17 17 17 17 17 17 17 17 17 17 17 |
| | (until Aug. 24) | hannesburg |
| Aug. 24-Sept. 2 . | International Radio and TV Exha. (01-540 1101) Be | riin |
| Aug. 25-27 | Zuspa: International Shoe Samples Fair | ankinit . |
| Aug. 26-29 | | |
| Aug. 28-29 | | enlefurf |
| Aug. 27-30 | | |
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| A 00 01 | Electrical and Electronics Components Exhibition Go | |
| Aug. 28-31 | | BCOW . |
| Aug. 29 Sept. 12 | | alah alam |
| Aug. 31—Sept. 9 | International Pair of Consumer Goods (va-ora ocoa), Suc | |
| Sept. 2-9 | | prig |
| Sept 3-10 | | rections to the same of the second |
| Sept. 6—21 | The same appearance in the same and the same | ders |
| Sept. 8—11 | | ro |
| Sept. 8-11 | International Leather Week (01-439 3964) | ris . |
| Sept. 8-16 | International Autumn Fair (01-584 6938) | nna |
| Sept 8-23 | Infernational Fair | ent |
| Sept. 12-20 | International Engineering Fair (01-278 0281) | TDO |
| Sept. 13-16 | International DIY Trade Fair (01-236 0911) Es | ental Distriction of the Fig. 1 |
| Sept. 14-23 | International Autumn Fair (01-486 1951) | reb |
| Sept. 16-19 | LIGAM—Furniture Trade Fair | |
| Cont 16 -10 | Clothing Prin | ACCOL |

BUSINESS AND MANAGEMENT CONFERENCES

| | THE PARTY OF THE P | |
|--------------------------|--|--|
| Ing. 27—Sept. 2. | Orb Foundation: Trade and Technology in Orbit (01-836 4688) | |
| ept. 3—7 | Brunel Management Prog.: Production Management and Human Behaviour (Uxbridge 56461). | Brunel University |
| ept 6—7 | MSS Management Skills for Women (Lincoln 38529) | |
| ept. 10-12 | EMS: The Japanese Approach to Product Quality. Management (High Wycombe 3377) | 多 ,有过程的从外连续的TGC。 (AGN) |
| ept. 11—13 | Freight Information Services: Practical Marksting for Enad Hauliers (Southport 38515) | LANGE OF BUILDING |
| ept 11—12 | ASUAG: International Chronometry Congress (01-387-0116) | and the second of the second o |
| ept. 12—13 ept. 12—15 | Financial Times: Korea in the 1980s (01-236 4382) International Newspaper Promotion Association: | Secol Munici |
| ept. 13—14 | 9th European Conference Society of Chemical Industry: Marine Corrosion on Offshore Structures | University of Aberdsen |
| ept. 14 | CILA: Boncational Conference (01.240 1496) MSS Computer and Business Consultancy: Effective | Frankfurt Rossi Janester Hotel W2 |
| | Budgeting and Financial Planning (Worthing: | |
| ept. 18-31 | Brunel Management: Experimental Methods in Management Training (Uxbridge 56561) | Brunel University University of Technology, |
| ept. 18—21 | ICMA: Decision Making Techniques for the Management Accountant (01-637, 2311) | Loughborough |
| ept. 17—18 | Management Centre Europe: Top Management | |
| ept 17 | CCC: Tax Planning and the Boat Owner—How to Reduce Costs (01-222 6362) | Cotswold Hotel, Southampte |
| · | | |

1918 "Taisho Marine" 1979



1. President's Statement A. HIRATA During the year under review, the Japanese economy showed some signs of recovery as a result of financial and monetary measures that were taken to boost business. However, exports decreased partly because of the mised value of the yen in relation to the dollar, and the low ebb of business

continued without any substantial over-

Nevertheless, this report will show that your Company achieved a good ss record despite the difficult economic environment. This achieve ment is the result of the long-standing and excellent reputation of your Company and the positive business policies introduced by Company management. We are grateful to you, our shareholders, for your most generous support in helping us to achieve favourable results.

Based on stable development, the Japanese economy is expected to overcome the present severe business environment by achieving a steady growth in future. During the course of this growth non-life insurance business will play an increasingly greater social role in supporting the stability of the people's livelihood and the smooth development of enterprises.

We fully realize the social responsibility of insurance and are determined. to make further efforts to promote our business in order to meet the needs of society. We will also work towards improving services to our clients and towards achieving a higher efficiency in all aspects of

We are also endeavouring to give our clients the best possible service everywhere in the world by expanding our worldwide service network. It would be greatly appreciated if you, our shareholders, continue to render your utmost support to the Company in the future.

The Japanese economy gradually began to show bright signs of improvement in the fiscal year 1979, ended March 31, 1979. With public investments and personal consumption as the core, domestic demand showed a firm forward movement as a result of financial and monetary measures that were taken to stimulate business activities. On the other hand, exports which had been supporting the Japanese economy began dwindling as a result of the sharp increase in the value of the yea. Thus a complete business recovery was not achieved.

In the face of this economic situation, we fulfilled our social mission imposed on the non-life insurance industry by taking positive steps to offer carefully planned customer service. We did this by reinforcing and expanding our sales and service networks through the opening of new branch and sub-branch offices. Further efforts were made in offering more efficient management through the reduction of various costs and expenses and the rationalization of our business, which resulted in the following

The total net premiums written were U.S.\$952,321 thousand, a 10.5% increase, over the previous year. Total assets were U.S.\$3,025,952 thousand, an increase of U.S.\$366,215 thousand. The net income for the year under review was U.S.\$60,120 thousand.

in the field of hull insurance, the situation continued to be severe because of the dwindling ownership of bottoms by the shipping industry and the decreasing premium income in foreign currencies which was made worse by the increased value of the yen. We did our best to cultivate the hall insurance market but our net premium income decreased from the previous year. The loss ratio also rose over the previous year.

The situation in the field of cargo and transit insurance was very severe due to the poor amount of export trade and the sharp rise in the value of markets with particular emphasis on transit insurance, but the net premium income was lower than that of the previous year. The loss ratio also slightly increased over the previous year.

Demands for fire insurance were stuggish in industrial circles. However, we managed to record a 7.3% increase in net premiums written in comparison with the previous year. This was brought about by the creation of new demands in personal lines of business.

We were able to record an 18.3% increase in net premiums written. This was brought about by vigorous business activities in this line of insurance, mainly in the area of "private automobile insurance."

Compulsory Automobile Liability We recorded an 11.6% increase in net premiums written over the

previous year. This increase was achieved due to a remarkable increase in the number of automobiles sold.

Personal Accident insurance together with Liability insurance and Surety Bond recorded favourable gains. Other insurances as a whole recorded a 14.5% increase in net premiums written. The loss ratio, mainly Personal Accident insurance, showed a marked improvement over the

As in the previous year, we continued our endeavours to strengthen and expand our sources of overseas business. As evidence of this, we have opened a new liaison office in Abu Dhabi. Overall growth in overseas business was satisfactory mainly due to the increase in business in the United States and the Near and Middle East.

The general situation concerning investments was more severe that it has been in recent years due to the decline in demand for capital by firms and the drop in interest rates. However, your Company's investment income, net of investment expenses, was U.S.\$64,488 thousand, as a result of both an expansion in investments and a flexible operation of

💳 🛠 BALANCE SHEET (as of March 31, 1979) 🛠 🖛

| Assets (Dollars in | n thousands) | Liabilities and Stockholders' Equity (Dollars i | (Dollars in thousands) | |
|--------------------|--|---|--|--|
| 1979 | 1978 | . 1979 | 1978- | |
| Investments | 2,031,340 91,617 106,024 155,411 100,861 | Losses and claims | 257,818 432,134 237,292 511,048 249,775 971,670 | |
| Other assets | 174,484 2,659,737 | Total\$3,025,952 | 2,659,737 | |



TAISHD MARINE AND FIRE INSURANCE COMPANY, LIMITED

TOKYO, JAPAN

The annual report will be available at Hambros Bank and our London Liaison Office

WEEK'S FINANCIAL DIARY

The following is a record of the principal business and financial engagements during the week.

The Board meetings are mainly for the purpose of considering dividends and official indications are
not always available whether dividends concerned are interms or finals. The sub-divisions shown
below are based mainly on last year's timetable.

TODAY, AUGUST 20

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2nd Edition

BANKING IN THE UNITED STATES

by Dr. Harry Guenther

REVISED EDITION 1979

The author, a past president of Golembe Associates Inc., the leading bank research and consulting firm in the United States, and presently dean of the School of Business Administration at Georgetown University, has now revised his introduction to the structure, regulation and working of U.S. financial institutions. Dr. Guenther also discusses the nature of changes likely to occur in U.S. banking during the 1980s.

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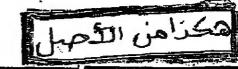
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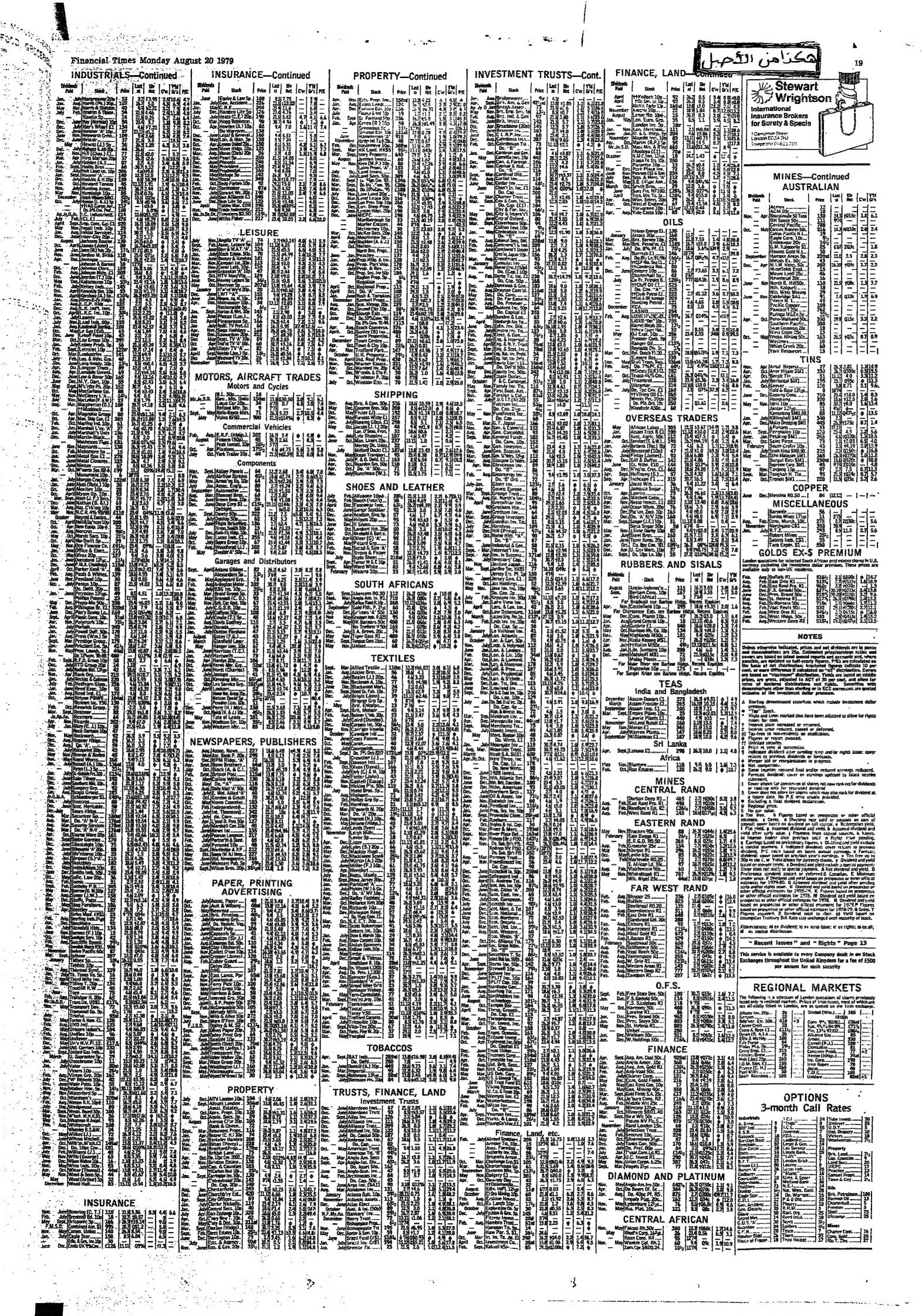
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Israel-U.S. near open breach

appeared resterday to be close stinians on the West Bank.

eased only through a meeting between President Carter and Mr. Menahem Begin, the Israeli Prime Minister, possibly with the participation of President Anwar Sadat of Egypt.

The Israeli Cabinet yesterday backed Mr. Begin's rejection of any American attempt to intro-duce a new resolution in the United Tations recognising with Egyptian leaders.

Palestinian rights.
Mr. Robert Strauss. President Carter's Middle East envoy, failed to budge Israel on the issue in a second meeting with Mr. Begin last night. Mr. Strauss arrived in Tel

Aviv earlier from talks with Mr. Sadat in Cairo, apparently having met a cool reception to the U.S. proposal.

L AND the United States After two hours of apparently in favour of a new UN resolu-ed Asterday to be close tough talks here, Mr. Strauss tion.

open breach on the refused to make any reference Washington hopes that giving question of rights for the Pale- to Israeli threats to quit the current Palestinian autonomy There were suggestions in Tel talks if the U.S. tabled its own Aviv that the tension might be resolution or backed any other resolution to give more recognition to Palestinian rights.

> reservations voiced by both Israel and Egypt would be taken into consideration when Washington makes its decision. Mr. Strauss met Mr. Begin and other Ministers on Friday

Mr. Strauss said that the

before going to Cairo for talks Tripartite working sub-committees resumed discussions on Palestinian self-rule yesterday.

but the talks in Alexandria were expected to make little substantive progress.

It is because of the slow progress in these falks, which have concentrated on procedural issues, that the Americans are delegation presented no plans to to exist.

Washington hopes that giving greater recognition to Pales-tinian rights will bring some Palestinians into the talks on their future.

However, Israel is bitterly opposed to any tampering with the delicate balance of Resolution 242 and the Camp David accords which together form the basis for the peace treaty with

Officials here are saying privately that if the U.S. pushes ahead with its plan, in spite of Israeli opposition, then Jerusalem will consider the basis of the peace accords to have been breached.

This could mean an Israeli vithdrawal from the self-rule

Alan Mackie reports from Cairo: Egyptian

modify Resolution 242 but Vice President Hospi Mubarak, who held separate talks with Mr. Strauss, said the matter had been discussed. Neither Presi-dent Sadat nor Mr. Strauss alluded to the plan at a Press conoference.

However, both Mr. Sadat and Dr. Khalil have intimated that PLO involvement at this stage may hinder rather than advance

the complex autonomy talks.

David Buckan in Washington writes: The present American policy of ostracising the Palestine Liberation Organisation was "ridiculous," said Mr. Andrew Young, the U.S. Ambassador to the United Nations whose resignation was an resignation was an-

He said it no longer made sense for the U.S. to refuse to talk to the PLO, when there was a possibility that the PLO Premier might moderate its stand and Mustafa Khalil said Mr. Strauss's come to recognise Israel's right

Phillips plans T-block oil scheme

BY RAY DAFTER, ENERGY EDITOR

THE PHILLIPS offshore consortium is preparing the way Light, and Oil Exploration for the development of three (Roidings)—have ordered drill-neighbouring oilfields in the ing frames to be placed on the North Sea's UK sector.

If the work goes ahead-the decision has still to be takenit could result in one of the most ambitious oil and gas production systems so far tackled in British waters.

The fields concerned are Tiffany, Toni and Thelma, in the so-called "T-block," 16/17, some 150 miles north-east of Aber-

So far eight wells have been drilled in the block. The group amount of natural gas. already has a fairly good idea shour the geology of Toni. Two more wells, one each on Tiffany and Thelma, are scheduled to be sunk later this year followed by a further well on each next

The wells are used primarily discovered. to appraise the extent and potential recoverable reserves of the extent of the fields. Tiffany is two fields. If the drilling is successful the wells will be used later to produce oil and gas from the surrounding portions

Vote may

By Christian Tyler, Labour Editor

MR. JAMES CALLAGHAN'S

hopes of preventing contro-versial amendments to the

Labour Party's constitution from being decided at the

annual conference might be

thwarted by the trade union

In spite of general sympathy among the union hierarchy for Mr. Callaghan's

fear of a bruising public debate, many union leaders

believe that the debate can-

not and should not be side-

including sitting MPs, is seen by some union officials as

The fate of other proposals,

notably that giving the party's

national executive committee final control over the mani-

festo, might denend on a

meeting of trade union

general secretaries on the eve

of the Trades Union Congress

in Blackwool in a fortnight.

the nine unions that have

called for the reopening of

the inquiry into the party's

structure and finances will

meet the organisation commit-

tee of the national executive.

vegr-long inquiry should pro-

unions have yet to decide

what guidance to give their

delegations to the Labour

conference in October.
Mr. Calleghan, as leader of the Parliamentary Labour Party, has appealed to the

national exceptive to change

its mind and nut all the issues

into a revemped committee of inonity. He has asked the

The Transport Workers.

with the hirgest block vote of the conference, appears

anxions to have the issues brought into the open this

year rather than postponed

until next. Mr. Moss Evans, general

secretary, is one of the nine unten leaders who have sup-ported a thorough inquiry,

but his executive and delega-

tien may insist on a rote, at

land on compulsory reselec-

the Amalgamated Union of

Engineering Workers, which tipped the scales last year,

might be close.

The battle for the votes of

wings to support him.

Immediately after Congress.

Parliamentary

virtually certain.

A decision on compulsory re-selection of Labour's

candidates,

threaten

fina. Agip, Century Power and seched above the Tiffany and Thelms fields.

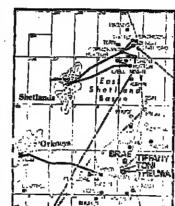
These small steel templates, fabricated in Aberdeen by Vetco Offshore, are due to be delivered in time for the sinking of the first two wells.

Phillips, as operator for the group, has said nothing about the possible size of reserves in black 16/17. It is estimated that the group has identified over 500m barrels of recoverable oil, together with a large

Some analysts have put the notential much higher; stockbrokers Gilbert Eliott and Company suggest that over 1bn parvels of recoverable oil and one trillion (million, million) cubic feet of gas have been

Much will depend on the real known to have a very thick oil-producing tone—a gross thick-ness of 1,300 ft from which oil d at rates of between 2.300 of the reservoirs.

and 8.300 barrels a day. It is one each for Tiffany, Toni, like Toni and T. To aid this programme, significant that the two appraisal which lies 4 miles to the south, British Gas term Phillips and its partners—Petro- wells planned for Tiffany will and Thelma, lying a further Fergus, Scotland.



be sited about one mile away from the discovery well, drilled earlier this summer.

Within the consortium, companies are already tentatively ooking at possible development schemes, any of which would cost well over \$1bn, to cover the exploitation of all three

It is expected that three production structures will be used; 3 miles to the south. At least one platform will have to be a fixed structure in order to carry the producing equipment needed to handle both oil and

The group may decide to develop the fields in stages, as Phillips built up the production network from fields around Ekofisk in the orth Sea's Norwegian sector.

On this basis, Tiffany could well be the first of the "T-block" trio to be exploited, per-haps coming on stream in 1983-Although far from delineated, Tiffany has one advantage over the other two; a lower quantity of associated gas. Any development scheme for Toni and Thelma would almost certainly have to have some provision for collecting and transporting such gas

The Phillips group is watching with interest Mobil and British Gas Corporation studies into a possible gas gathering pipeline which could link fields like Toni and Thelma to the

Unions seek tougher TUC line

BY CHRISTIAN TYLER, LABOUR EDITOR

propaganda campaign against the Government's economic policies into action. They will urge delegates to the Trades Union Congress in two weeks' time to escalate the protest to include marches and other demonstrations.

Amendments to congress motions published today show there has been a considerable hardening of the unions' mood in the wake of Ministers' decisions on public spending, jobs and public ownership.

Mass demonstrations around the country are called for by the Furniture, Timber and Allied Trades Union in an amendment to the TUC General Council's key motion for the

seeking to convert the TUC's tion of Scientific, Technical and Iron and Steel Trades Con-Managerial Staffs wants the federation, wants to change an TUC to organise a national day Electricians' motion on economic of action "as soon as possible" in protest at expenditure cuts. Even the Right-wing led engineering section of the Amalga-

manual workers. The traditional defender of

incomes policy at congress, the National and Local Government broad unanimity against the Officers' Association, this year major items of Conservative qualifies its stance by agreeing Officers' Association, this year qualifies its stance by agreeing that there should be free bargaining "until such time as the possibilities arise for a planned

LEFT-WING trades unions are economic debate. The Associa- Another moderate union, the policy so that policy talks are held not with Government, but with the Labour Party.

An attempt by the Construc mated Union of Engineering tion Workers to pull the TUC Workers, which has already sub-mitted a hard-line motion on their plans for labour law free collective bargaining, has changes is being obliquely asked for a "national campaign" contested by the Transport to secure a 35-hour week for Workers, which suggests vigorous resistance instead.

This year's congress, Blackpool, is likely to policy-although an argument about nuclear power could develop—but agenda suggests that the usual crop of domestic

Tax changes in next Budget

BY ELINOR GOODMAN, LOBBY STAFF

THE GOVERNMENT'S review of personal and capital taxation should be finished in time to announce significant changes in next year's Budget.

If all goes according to plan, the Chancellor should be able to use the Budget to clarify a number of points now surrounded by uncertainty, such as the Government's position on inflation accounting and the general question of stock relief. He may also say how he intends changing aspects of personal taxation, like the treatment of fringe

of legislation than this year's out by the Treasury. Even more The weekend reaction to what

may well be a series of consul-tative documents on tax changes suggests that the Government may face consider-able opposition to some of its proposals. Mr. Terry Duffy, the Engineering Union President, warned that the unions might react violently to Government plans for a crackdown on perks

The consultative process just benefits.

As a result, next year's of a number of studies into tion—in Finance Bill is likely to be a aspects of both personal and tempora much more wide-ranging piece corporate taxation being carried factory.

Act which affected the rates, fundamental in its impact could rather than the structure of be the review of company tax. be the review of company tax, foreshadowed by Sir Geoffrey Howe, the Chancellor, in his June Budget speech, when he indicated that the Government would be considering the whole question of inflation accounting and company taxation and that the Inland Revenue would consult the accountancy profession.

The review of corporation tax, and the treatment of stock relief, starts from the basic premise that the present way of dealing with stock appreciation-introduced in 1974 as a temporary measure-is unsatis-

Continued from Page 1

Engineering employers sceptical

"Nevertheless, the federation believes that the willingness of unions and their members reasonably to operate this more limited amendment should be

The code of conduct on picketing suggested by the Government was welcome, but should be drawn up by the Employment Secretary and Home Office, not by the Advisory Conciliation and Government was welcome, but

Advisory Conciliation and Arbitration Service. On the closed shop the takes a "pragmatic" line.

ederation says it has no policy of favouring the practice, but Federation members had usually been able to secure sive litigation, inter-union con- maintenance work.

ing employees who refused to difficulties" were to be avoided.

reserved approach to some of

the proposals." First, protection should be given to those who objected to

reasonable safeguards for exist- flict and industrial relations Second, engineering employers would not support the proposal for compulsory closed-shop that the close dshop as generally susceptible to industrial relations solutions rather than for legal determination. This accounts for the federation's reserved approach to some of

engineering workers against the rates is due today. An em-ployers spokesman said yesterjoining any trade union, not day there were signs that the those who objected to a parti- strikers enthusiasm was waning, cular union. This was essential, This follows a management deci-the federation said, if "excession for one-day lay-offs to ollow

Brussels expenses rules change sought

THE European Community's auditing office wants clearer rules established for expenditure by the top men at the Brussels Commission. It also notes that other Community bodies may need firmer expenditure guidelines.

This is the main outcome of a report prepared for the European Parliament by the auditors following a detailed examination of Commission expenditure in 1977 and 1978. The Parliament will have the report next month, but the full text has emerged in

The auditors say that they have made criticisms only where firm rules have clearly been overstepped. But they also note that few rules on entertainment and travel expenditure exist anyway.

On one key point involving so-called "representational expenses"—that is meals, receptions, gifts, etc.—the report say a normal audit is hard if not impossible to carry out, because there are no rules saying what expenses can be drawn from general funds and what must be individual

The report says that in 1978 Mr. Roy Jenkins, the Commis-sion President, and his 12 Commissioners, had individual allowances representation amounting in all to 9.1m. Belgian francs (£140,000) (compared with allowances totalling 7.8m Belgian francs in 1977).

Four commissioners overspent their 1978 individual allotments, others underspent so that the 13 together were booked for 8.98m francs. Also, a global sum of 2.3m francs recorded for entertainment by the Commission as a whole (926,000 francs of it for restaurant meals) bringing a grand total of 11.3m francs.

The report notes that busi-The report notes that business travel costs totalled 30.3m francs last year and that travel "expenses totalling 3.5m francs, spent in 1978, were incorrectly put down

It says that the Commission's own regulations on use of air taxis (small aircraft for example, from Brussels to Luxembourg) were not always observed and the relatively high expenditure here was not always justified.

Weather

UK TO-DAY DRY AND BRIGHT, becoming

cloudy with rain.
London, S and N England. E Anglia, Midlands, Channel Is. Mainly dry with bright or sunny intervals, becoming cloudy with rain. Wind light, becoming strong. Max. 17C

(63F).
S. W. England, South Wales
Colludy with heavy rain,
clearer later with scattered
showers. Wind fresh or strong.
Max. 17C (63F).
N. Wales, N.W. England,
Lakes, S.W. Scotland
Cloudy with rain at times

Cloudy with rain at times becoming clearer with showers. Max. 17C (63F).

N. E. England, Borders
Bright or sunny intervals,
becoming cloudy with rain at
times, Max. 16C (61F). E. Scotland, Highlands, Ulster Sunny intervals and scattered

showers. Wind light and vari-able: Max. 15C (59F). Outlook: Showers and bright

WORLDWIDE

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THE LEX COLUMN

Changing outlook for aluminium

aluminium producers are cur-rently at rock bottom levels. Last week, a leading German producer was asking its main competitors to let it have stock and getting no help. Today, and getting no help. Today, Pechiney Ugine Kuhlmani is pushing up its prices by 6 per-cent. Vereinigte Aluminium. Werke, which made heavy trading losses last year, now says that capacity is insufficient to meet demand and that it is currently operating in the

Despite this, producers are about the medium-term outlook than they were at the start of the year. And last week's interim figures for the two quoted UK companies showed that there is going to be no profits bonanza for them.

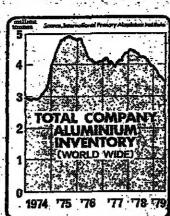
The current shortage of aluminium supply is a direct result of over-expansion in the 1950s and 1960s when the U.S. industry, for example, expanded its capacity eightfold. Companies burnt their fingers so badly in the aftermath of that splurge that for the last several years smelting capacity has been rising at a much slower pace than the demand for primary metal. In addition, soar-ing fuel costs have left an extra dent on the supply side-about a third of Japan's refining capacity is currently mothballed—while a strike at Alcan Canada's Quebec smelters has taken out the equivalent of nearly a tenth of the North American market.

Recession

Yet a looming recession is eausing the producers to modify ideas about the possibility of a severe world-wide shortage of aluminium developing in the early 1980s. Companies such as Pechiney are still projecting an average 5 per cent rise in annual aluminium consumption over the next five years, which is perhaps two points higher than the potential increase in refining capacity. But the next 18 months could well leave a blip in that

smooth growth pattern.
Thus Aluminium Company of America last week accompanied a forecast of record sales and earnings in 1979 with the indication that shipments could be essentically fiat in 1980. And Alcoa could be better placed than some. Alcan (UK) on Friday reported lower interim figures and was hesitant about fifths more than its rivals is heavy property revaluation, the outlook for the rest of the The outlook for 1980 is not Shareholders still need som year. The early part of 1980, t thinks, will probably be a difficult period for producers around the world.

Looking a little further shead, current investment plans suggest a rather faster rate of



growth in the world's religing capacity by the mid-1980s. The companies are currently flocking to Australia, which offers political stability, cheap coal and plenty of raw materials. Six separate smelter projects are at various stages of planning in Australia and more

could follow.

Growth in smelting capacity in the UK will be strictly limited, for it would take bigsubsidies from the taxpayer to offset the high cost of fuel. Yet there will be quite heavy spending on modernisation and improved efficiency. British Aluminium, for instance, will probably in the near future. authorise plans to reconstruct its Fort William plant at a cost of perhaps £25m. The companies expect that supplies may be quite tight in the early 1980s" and they are investing big sums in their downstream facilities so that they will be able to add more value to the primary product. At the same time importers have grabbed a big

show some improvement on a strike-hit first half. But British Aluminium, which was probably times historic stated earning the most profitable aluminium (the multiple rises to 7.8 dn company in Europe last year, fully taxed basis) and has been will be pushed to match its over pitched nearly a third below in all 1978 outturn of £25.1m this-

slice of commodity-type business

rather smaller company in term of assets and sales.

Alcan has to carry finance costs for a heavy investment programme, which should state to pay iff in the next few year to pay iff in the next few year Smoother production flows: its Lymmouth smelter plus a increase in the inadequal returns produced by its mar rolling mill would togeth make the numbers look ver different. By 1982 Alcan hope to be getting close to its objetue interest return on assets er interest return on assets er ployed, calculated on a currecost hasis. This implies belief that a very substanti improvement in its current pe formance is feasible.

Hanson/Lindustries

In many takeover battles th initial offer is just a sightle shot But Hanson Trus s 225; bid for Lindustries does not f this pattern. Hanson has offere 135p per share for Lindustrie 135p per share fer I industrie (a 17 per cent premium on the pre-bid price) and has state quite firmly that it has "no in tention of indressing it." Unde the Takeover Panel rules the would seem to be a hindin statement. Lindustries share are currently 65 above it offer price although Hanson wa able to pick up Lom shares i the market last week faking it

stake to nearly 15 per cent. This is not the first tim-Hanson has sniffed aroun Lindustries to October, 197 it offèred 135p per share con ditional on Lindustries agrement. That was refused Lindustries doubled its div dend, and Hanson retired. Thi time Hanson is being mor from a third to about two fifths profits could fall this year last year.

In profit terms, the two gloomy statement at the recen quoted UK companies expect annual meeting.

But Hanson's bid still does not look particularly generous. If values Lindustries at five times historic stated earning pitched nearly a third below n all 1978 outhurn of £25.im this asset value. Having raised time round. And Alcan (UK) dividend so substantially lais not likely to match 1978's time round. Lindustries his substantially lais not likely to match 1978's time round. Lindustries his silf pre-tax. In current cost little scope for doing mucterns, it is now making a size-more on this side (the dividen able loss, which explains sain is uncovered on a current cost is shares yield roughly two basis) but it may well publis fifths more than its rivals.

especially inspiring for either pretty firm assurances from the company. But they are both Lindustries board about the outposits on a longer view. Alcan At the offer price the share (UK), in particular ought to yield 101 per cent and ther have scope to beef up its are plenty of safer high yield returns, which are way below ing stocks around these days

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THE CHARGES

